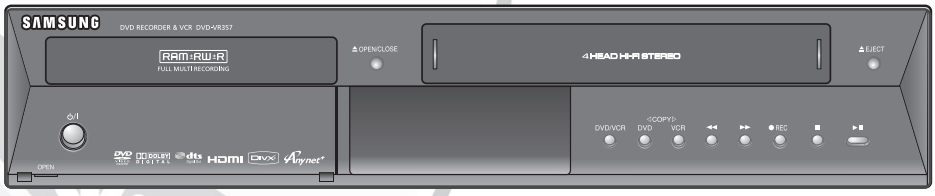
SAMSUNG

Instruction Manual

DVD-VR357



DVD+ReWritable
DVD+R

RAM/RW/R

VIDEO

Hi-Fi

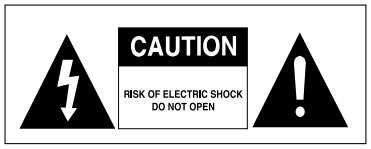
www.samsung.com

AK68-01287A-01

Getting Started

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION : THIS DVD RECORDER & VCR USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.
BE SURE TO OPERATE THE RECORDER AS INSTRUCTED.

CAUTION
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTIONS
Caution: To prevent electric shock, match the wide blade of the plug to wide slot of the socket and fully insert.
Attention: Pour éviter les chocs électriques, introduíre la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu au fond.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD Recorder & VCR is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this , the DVD Recorder & VCR cannot play the disc.
- This device is protected by U.S. Patent Nos.4 ,631,603;4,577,216;4,819,098;4,907,093; and 6,516,132. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision,and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- This product is covered by one or more of the following U.S. patents:
  5,060,220 5,457,669 5,561,649 5,705,762 5,987,417 6,043,912 6,222,983 6,272,096 6,377,524 6,377,531 6,385,587 6,389,570 6,408,408 6,466,532 6,473,736 6,477,501 6,480,829 6,556,520 6,556,521 6,556,522 6,578,163 6,594,208 6,631,110 6,658,588 6,674,697 6,674,957 6,687,455 6,697,307 6,707,985 6,721,243 6,721,493 6,728,474 6,741,535 6,744,713 6,744,972 6,765,853 6,765,853 6,771,890 6,771,891 6,775,465 6,778,755 6,788,629 6,788,630 6,795,637 6,810,201 6,862,256 6,868,054 6,894,963 6,937,552

DANGER	– VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
CAUTION	– VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ATTENTION	– RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	– SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO !	– AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	– SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	– SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	– SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	– 打开时有可见及不可见激光辐射。避免激光束照射。
注意	– ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。

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Precaution

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with a dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A groundingtype plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus. Service is also required if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.re, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this recorder, be sure to turn them all off.
- Do not move the recorder while a disc is being played, or the disc may be scratched or broken, and the recorder's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the recorder.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this recorder. If this occurs, turn the DVD Recorder & VCR off and on again with the **POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The recorder will operate normally.
- Be sure to remove the disc and turn off the recorder after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the recorder for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

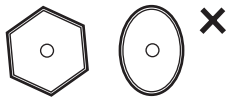
Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Disc Handling

- Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this DVD Recorder & VCR may be damaged.



Holding discs

- Avoid touching the surface of a disc where recording is performed.

DVD-RAM, DVD±RW and DVD±R

- Clean with an optional DVD-RAM/PD disc cleaner. Do not use cleaners or cloths for CDs to clean DVD-RAM/DVD±RW/DVD±R discs.

DVD-Video, Audio CD

- Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.

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Disc Storage

Be careful not to damage the disc because the data on these discs are highly vulnerable to the environment.
- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.
- If you move your DVD Recorder & VCR suddenly from a cold place to a warm place, condensation may generate on the operating parts, including the lens, and cause abnormal disc playback. In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again. It will work properly when condensation has evaporated.

Disc Specifications

DVD-Video
- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby 3D surround, allowing you to enjoy vivid and clear theater quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a double-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD±R/DVD-RW(V) recorded is finalized, it is playable in a standard DVD player.

Audio CD
- An audio disc on which 44.1kHz PCM Audio is recorded.
- Plays CD-DA format audio CD-R and CD-RW discs. This unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

CD-R/-RW
◆ MP3 CD-R/-RW
- Only CD-R discs with MP3 files recorded with ISO9660 or JOLIET format can be played back
- Only MP3 files with the "mp3" or "MP3" extension can be used.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 80 Kbps to 320 Kbps, the sound may cut in and out.
- Playable bitrate range is from 56Kbps to 320Kbps.
- The unit can handle a maximum of 1000 files and folders.
- DVD-RAM/±RW/±R discs that contain MP3 files can be played back.

◆ JPEG CD-R/-RW
- Only JPEG files with the ".jpg", ".JPG" extension can be used.
- The unit can handle a maximum of 1000 files and folders.
- Maximum size of progressive JPEG is 3M pixels.
- MOTION JPEG is not supported.
- DVD-RAM/±RW/±R discs that contain JPEG files can be played back.

◆ Using MPEG4 disc
- Disc : CD-R/-RW, DVD-RAM, DVD±R/ DVD±RW,
- MPEG4 File with following extensions can be played. : .avi, .divx, .AVI, .DIVX
- MPEG4 Codec format : DivX 3.11 DivX 4.x DivX 5.x
- Available Audio Format : “MP3”, “MPEG”, “PCM”,“AC3”, “DTS”
- Supported subtitle file formats: .smi, .srt, .sub, .psb,.txt

◆ Using CD-R/-RW
- Use a 700MB(80 minutes) CD-R/-RW disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early play-back time, and all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.
- When recording from CDs for your personal use to CD-R/-RW discs, playability may vary depending on the contents and discs.

DVD±R Disc Playback and Recording
- Once a DVD±R is recorded and finalized, it is playable in a standard DVD player.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programs and erasing programs before finalizing.
- When programming is erased from a DVD±R, that space does not become available. Once an area on a DVD ±R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to update the recorded information after recording finishes.
- This product optimizes the DVD±R for each recording. Optimizing is excuted when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is performed too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD±R discs recorded and finalized with a Samsung DVD video recorder. It may not be able to play some DVD±R discs depending on the disc and the condition of the recording.

DVD-RW Disc Playback and Recording
- Recording and playback can be performed on DVD-RW discs in both Video and VR Modes.
- Once a DVD-RW is recorded in VR or Video mode and finalized, you cannot perform additional recordings.
- Once a DVD-RW is recorded in Video Mode and finalized, it becomes a DVD-Video.
- In both modes, playback can be performed before and after finalization, but additional recording, deleting and editing can not be performed after finalization.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to execute format. Be careful when executing Format because all the recorded data may be lost.
- When inserting an unused disc, a message will appear asking whether to initialize the disc or not. If you select "YES", the disc will be formatted in VR mode.

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• **DVD-RW (VR mode)**
- This is a format that is used for recording data on DVD-RW disc. You can record multiple titles, edit, delete, partial delete, create a playlist, etc.
- A disc that is recorded in this mode may not be played by existing DVD players.

• **DVD-RW (Video mode)**
- This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by an existing DVD player once it has been finalized.
- If a disc that has been recorded in Video mode by a different manufacturer's recorder but has not been finalized it cannot be played or recorded by this recorder.

DVD+RW Disc Playback and Recording

• With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).
• You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.
• Finalizing is generally unnecessary when using a DVD+RW disc.

DVD-RAM Disc Playback and Recording

• For cartridge type DVD-RAM discs, remove the cartridge and use only the disc.
• Ensure that the recording mode is set to VR mode. Otherwise, this product will not be able to play the recording.
• You cannot play a DVD-RAM in most DVD players due to compatibility issues.
• Only DVD-RAM standard Version 2.0 discs can be played in this unit.
• DVD-RAM discs recorded on this unit may not work with other DVD Players. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.

COPY PROTECTION

• Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD Recorder & VCR directly to your TV, not to a VCR. Connecting your recorder to a VCR results in a distorted picture from copy-protected DVD discs.
• This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Protection

• Program-protection: See page 66 "Locking a Title"
• Disc-protection: See page 75 "Disc Protection"

✻ DVD-RAM/DVD±RW/DVD±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.

✻ For more information on DVD recording compatibility, consult your DVD-RAM/DVD±RW/DVD±R manufacturer.

✻ Use of poor quality DVD-RAM/DVD±RW/DVD±R discs may cause the following unexpected problems including, recording failure, loss of recorded or edited materials, or damage to the recorder.

Do not use the following discs!

• LD, CD-G, CD-I, CD-ROM and DVD-ROM discs should not be used in this product.

[Note]
• Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No Disc" or "The disc cannot be played. Please check the regional code of the disc." will be displayed.
• If your DVD-RAM/DVD±RW/DVD±R disc is an illegal copy or is not in DVD video format, it may also not be playable.

◆ **Disc Compatibility**
• A 8X speed DVD+RW or greater disc can be played, but maximum recording speed is 4x.
• Not all brands of discs will be compatible with this unit.
• The latest firmware upgrade to improve recording & playback quality can be downloaded from our web site. (Download Center at www.samsung.com)
• If disc compatibility problems continue, or there is an issue upgrading your recorder, contact the Call Center at 1-800-SAMSUNG.

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General Features

The DVD-VR357 allows you to record and play high quality digital video on DVD-RAM/DVD±RW/DVD±R discs. You can record and edit digital video on DVD-RAM/DVD±RW/DVD±R discs as if they were VCR tapes.

High quality digital audio and video recording and playback

You can record up to approximately 16-hours of video on a double side 9.4 GB DVD-RAM disc,up to 15-hours on a dual-layer 8.5GB DVD±R disc, and up to 8-hours on a 4.7 GB DVD-RAM/DVD±RW/DVD±R disc, depending on the recording mode.

Creating DVD video titles using DVD±RW/DVD±R discs

With the DVD-VR357, you can create your own DVD video titles on 4.7 GB DVD±RW/DVD±R or 8.5GB DVD±R discs.

A Variety of Recording Options

Select an appropriate recording mode between XP, SP, LP and EP to meet your recording needs. (See page 52.)

- XP mode - High quality, about 1 hour
- SP mode - Standard quality, about 2 hours
- LP mode - Low quality, about 4 hours
- EP mode - Lower quality, about 6 or 8 hours
- The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs. (See page 36.)

Copying digital camcorder content using DV input jack

Record digital camcorder images onto DVD-RAM/DVD±RW/DVD±R discs or video tape using the DV input jack (IEEE 1394-4pin). (See page 55.)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC, 2D Y/C Separating circuitry and Time Base Corrector processor technology provide you with the highest image playback and recording quality. (See page 20.)
Component progressive scan output video is available in both DVD and VCR modes.

A variety of functions with an easy-to-use user interface

The Integrated menu systems and messaging functionality allow you to perform the desired operations easily and conveniently. With a DVD-RAM/DVD-RW(VR mode) disc, you can edit recorded images, create playlist, and edit videos in a specific sequence according to your needs.

MPEG4 playback

This DVD Recorder & VCR can play MPEG4 formats within an avi file.

DivX Trademark

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc and are used under license.

HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the DVD Recorder & VCR to your TV.

Tunerless DVD Recorder & VCR

The DVD-VR357 does not have a TV tuner. Recording TV broadcasts is possible via Connection to Cable/Satellite boxes and Multi Channel Video Services.

EZ REC MODE

This function allows you Initialize and Finalize a disc automatically. (See page 59.)

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Before Reading the User's Manual

Make sure to check the following terms before reading the user's manual.

Icons that will be used in manual

Icon	Term	Definition
DVD-VIDEO	DVD	This involves a function available with DVD or DVD-R/DVD-RW(V)/+R discs that have been recorded and finalized.
DVD-RAM	RAM	This involves a function available with DVD-RAM discs.
DVD-RW	-RW	This involves a function available with DVD-RW discs.
DVD-R	-R	This involves a function available with DVD-R discs.
DVD+RW	+RW	This involves a function available with DVD+RW discs.
DVD+R	+R	This involves a function available with DVD+R discs.
CD	CD	This involves a function available with a data CD (CD-R or CD-RW).
JPEG	JPEG	This involves a JPEG function available with CD-R/-RW or DVD±R/±RW/-RAM discs.
MP3	MP3	This involves an MP3 function available with CD-R/-RW or DVD±R/±RW/-RAM discs.
MPEG4	MPEG4	This involves an MPEG4 function available with DVD±R/±RW/-RAM discs.
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
✎	NOTE	This involves tips or instructions on the page that help each function operate.
☞	One-Touch button	A function that can be operated by using only one button.
ANYKEY	ANYKEY button	A function that can be operated by using ANYKEY button.

About the use of this user's manual

1) Be sure to be familiarize yourself with the Safety Instructions before using this product. (See pages 2~5)
2) If a problem occurs, check the Troubleshooting section. (See pages 78~80)

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How to use the DVD Recorder & VCR

Step 1 : Select the disc type

This unit can record on the following types of discs.
If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD±RW or DVD-RAM type disc. If you want to save a recording without making any changes, choose a non-rewritable DVD±R.

Step 2 : Format the disc to start recording

Unlike a VCR, the recorder automatically starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using a DVD-RAM
This type of disc can be formatted in DVD-Video Recording format (VR mode). You can edit recorded images and create a playlist in a specific sequence according to your requirements.

Using a DVD±RW/+R
- When an unused DVD±RW/+R disc is first inserted, the message "Uninitialized Disc. Do you want to initialize this disc?" will be displayed.
  If you select Yes, initializing will be begin. DVD-RW discs can be formatted in either DVD-Video format (Video mode) or DVD-Video Recording format (VR mode)
- There are no differences between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode) with DVD+R discs.

Using a DVD-R
When using a DVD-R disc, only V mode recording is possible and no initialization is needed to play it on this recorder. However, finalization is necessary to play this disc on other DVD players.

✎
- You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.
- You can format a DVD-RW to V or VR mode using disc manager.
  It should be noted that the disc's data will be lost when changing formats.

Step 3 : Recording

There are two different recording methods: Direct Recording and Timer Recording. Timer recording is determined as a date and recording can be done once, daily or weekly. There are 4 recording modes : XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode).

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Step 4 : Playing

To start playback, select the title you want to play from the title list.
A DVD consists of sections called titles, and sub sections called chapters.
During recording, a title is created between two points where you start and stop recording. Chapters will be created automatically when you finalize recording on DVD-R/DVD-RW discs in Video mode.
You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.
The chapter's length (interval between chapters) varies according to the recording mode.

Step 5 : Editing a recorded disc

Editing on discs is easier than conventional video tapes. The recorder supports many different edit functions, possible only with DVDs.
With a simple and easy edit menu, you can operate various edit functions, such as delete, copy, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW in VR mode)
With this recorder, you can create/edit a new playlist on the same disc without changing the original recording.

Step 6 : Finalizing & Playing on other DVD components

To play your DVD on other DVD players, finalizing may be necessary. First, finish all editing and recording operations, then finalize the disc.

When using a DVD-RW disc in VR Mode
Although finalizing is generally unnecessary when playing the disc on a VR Mode compatible component, a finalized disc should be used for playback.

When using a DVD-RW disc in Video Mode
The disc should be finalized first to enable playback on anything other than this recorder. No more editing or recording can be made on the disc once it has been finalized.

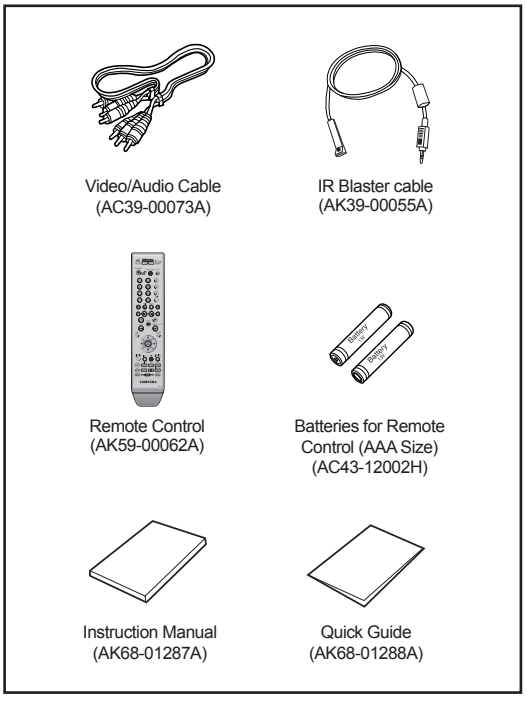
When using a DVD±R disc
You should finalize the disc to play it on other DVD players. No more editing or recording can be made on the disc once it has been finalized.

■ You can finalize automatically using the EZ REC MODE. (See page 59)

Unpacking

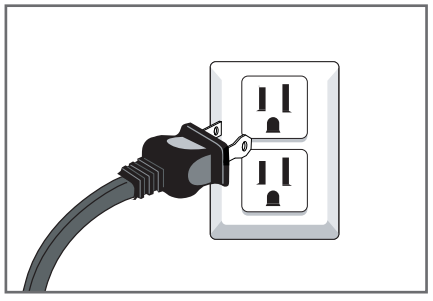
Accessories

Check for the supplied accessories below.



Connecting the Power Cord

After all connections are complete, plug the power cord into a wall outlet.



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Preparing the Remote Control

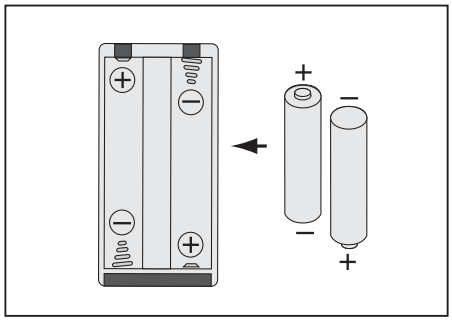
Install Batteries in the Remote Control

- Open the battery cover on the back of the remote control.
- Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.
- Replace the battery cover.

If the remote control does not operate properly:

- Check the polarity + - of the batteries.
- Check if the batteries are drained.
- Check if the remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations.
Do not put them in the household trash.



To determine whether your television is compatible, follow the instructions below.

1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV** button and enter the two-figure code simultaneously corresponding to the brand of your television by pressing the appropriate number buttons.

Brand	Codes	Brand	Codes
SAMSUNG	01,14,15,23,31	NEWSAN	27
DAEWOO	19	NOBLEX	25
EMERSON	21	PANASONIC	12,24
GRADIENTE	30	RCA	07,29
HITACHI	10	SANYO	05,20
JVC	11	SHARP	02,16,22
LG	06,08,18	SONY	03
LOEWE	28	TELEFUNKEN	26
MAGNAVOX	04	TOSHIBA	09
MITSUBISHI	13	ZENITH	17

Result: If your television is compatible with the remote control, it will switch off.
It is now programmed to operate with the remote control.

■ If several codes are indicated for your television brand, try each one in turn until you find one that works. If you replace the remote control's batteries, you must set the brand code again.

You can then control the television using the following buttons.

Button	Function
TV POWER	Used to switch the television on and off.
INPUT SEL.	Used to select an external source.
TV VOL +/-	Used to adjust the volume of the television.
TRK/CBC CH/TV CH (∧/∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.
0~9	Used to input number directly.
TV 100+/SET Button	Used to select channels over 100.

■ The various functions may not be able to be controlled on all televisions. If you encounter problems, operate the television directly.

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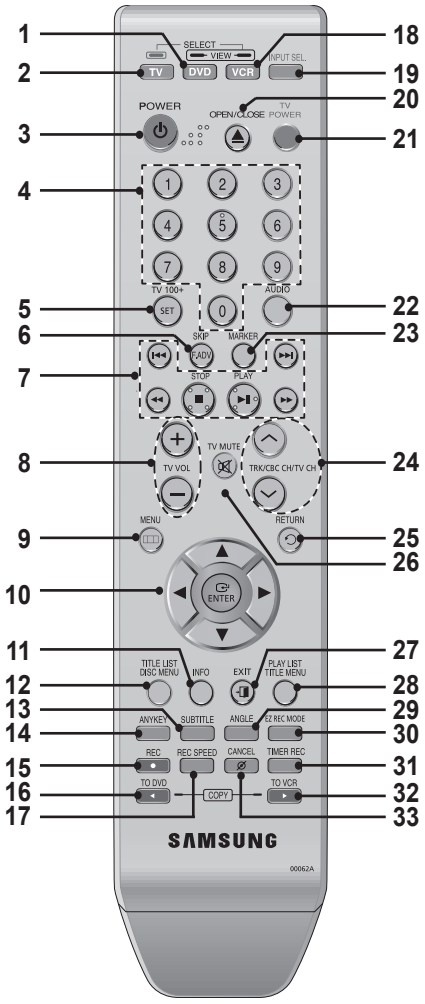
Tour of the Remote Control

You can control part of another manufacturer's TV functions with this remote control.

• Buttons that can be controlled on your TV : TV POWER, INPUT SEL., TV VOL +/-, TRK/CBC CH/TV CH (∧/∨), TV MUTE, 0~9, TV 100+/SET Button.



1. **DVD Button**
   Press this when you use a DVD.
2. **TV Button**
   Press this to operate your TV.
3. **POWER Button**
   Press to power the DVD Recorder & VCR on and off.
4. **NUMBER Button**
5. **TV 100+/SET Button**
   Press this to select channel 100 or higher.
   Press this to change the cable box or satellite receiver (set top box) channels.
   (For some cable box or satellite receiver (set top box) brands)
6. **F.ADV/SKIP Button**
   Press to skip a disc backwards or forwards.
7. **Playback-related Buttons**
   Forward/Rewind, Search, Skip, Stop, Play/Still
8. **TV VOL (Volume) Button**
   TV volume adjustment
9. **MENU Button**
   Press this to bring up the DVD Recorder & VCR's setup menu.
10. **ENTER/DIRECTION Buttons**
    (UP/DOWN or LEFT/RIGHT Buttons)
    This button functions as a toggle switch.
11. **INFO Button**
    Press this to display current setting or disc status.
12. **TITLE LIST/DISC MENU Button**
    Press this to enter the TITLE LIST/Disc menu.
13. **SUBTITLE Button**
    Press this to switch the DVD's subtitle language.
14. **ANYKEY Button**
    Press this to set the status of the disc that is being played.
15. **REC Button**
    Press this to make a recording on VCR, DVD-RAM/±RW/±R discs.
16. **TO DVD COPY Button**
    Press this when you copy from the VCR to the DVD.
17. **REC SPEED Button**
    Press this to set the desired recording time and picture quality.
18. **VCR Button**
    Press this when you use a VCR.
19. **INPUT SEL. Button**
    Press this to select AV input signal in external input mode. (AV input, DV input)
20. **OPEN/CLOSE Button**
    Press this to open and close the disc tray.
21. **TV POWER Button**
    Press to power your TV on and off.
22. **AUDIO Button**
    Press this to access various audio functions.
23. **MARKER Button**
    Press this to bookmark or mark a position while playing a disc.
24. **TRK/CBC CH/TV CH Button**
    Press this to adjust the tape tracking.
    Use this to select a CBC(cable box) channel. (See page 32)
    Use this to select a TV channel.
25. **RETURN Button**
    Returns to a previous menu.
26. **TV MUTE Button**
    This also operates as sound mute. (TV mode)
27. **EXIT Button**
    Exit the current menu.
28. **PLAY LIST/TITLE MENU Button**
    Press this to enter the Edit playlist/Title menu.
29. **ANGLE Button**
    Press this to access various camera angles on a disc (if the disc contains multiple camera angles).
30. **EZ REC MODE Button** (See page 59)
    Use this to set the EZ REC MODE.
31. **TIMER REC Button**
    Press this when you use Timer Recording.
32. **TO VCR COPY Button**
    Press this when you copy from the DVD to the VCR.
33. **CANCEL Button**

✳ This is a special remote control for the visually impaired, and has Braille points on the POWER( ), STOP( ) and PLAY( ) buttons.

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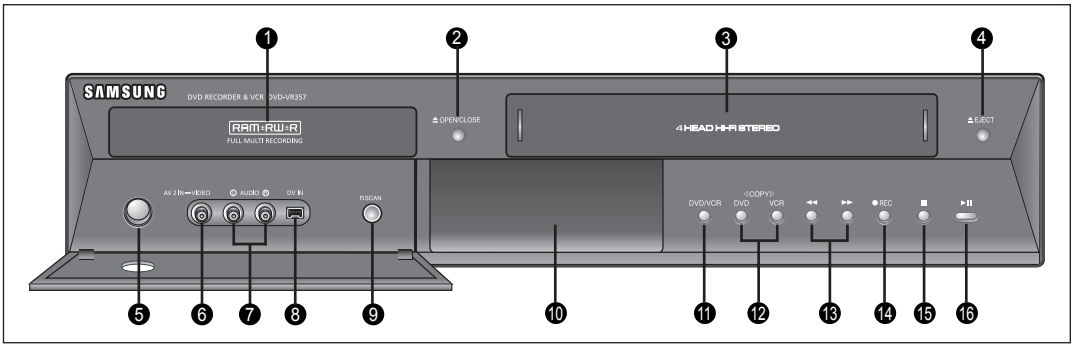
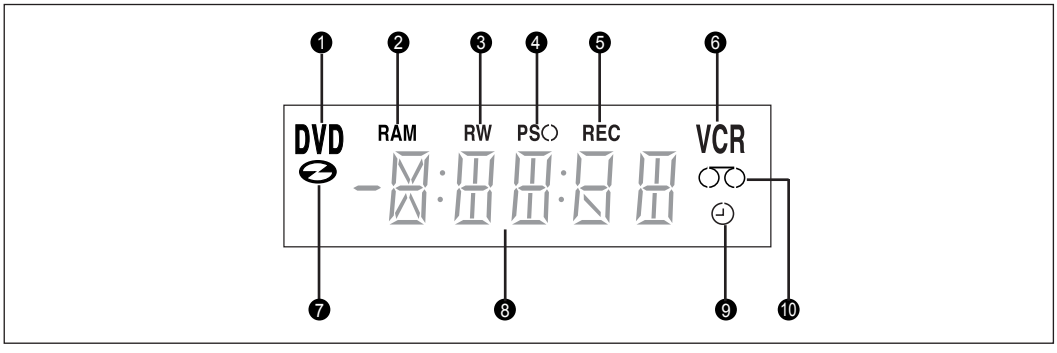
Description

Front Panel



1. DVD DECK
2. DVD OPEN/CLOSE BUTTON
3. VCR DECK
4. VCR EJECT BUTTON
5. POWER BUTTON
6. VIDEO INPUT JACK (AV 2 IN)
7. AUDIO L, R INPUT JACKS (AV 2 IN)
8. DV INPUT JACK
9. P.SCAN BUTTON
10. FRONT PANEL DISPLAY
11. DVD/VCR SELECT BUTTON
12. COPY BUTTON
13. SEARCH/SKIP BUTTONS
14. RECORD BUTTON
15. STOP BUTTON
16. PLAY/STILL BUTTON

Front Panel Display



1. DVD is activated.
2. DVD-RAM is activated.
3. DVD(±)R or DVD(±)RW is actived.
4. Progressive Scan mode is activated.
5. Record function is activated.
6. VCR is activated.
7. DVD or CD media is loaded.
8. The time, counter position or current deck status is indicated.
9. When you set a Timer recording, this indicator appears.
10. VHS video tape is loaded.

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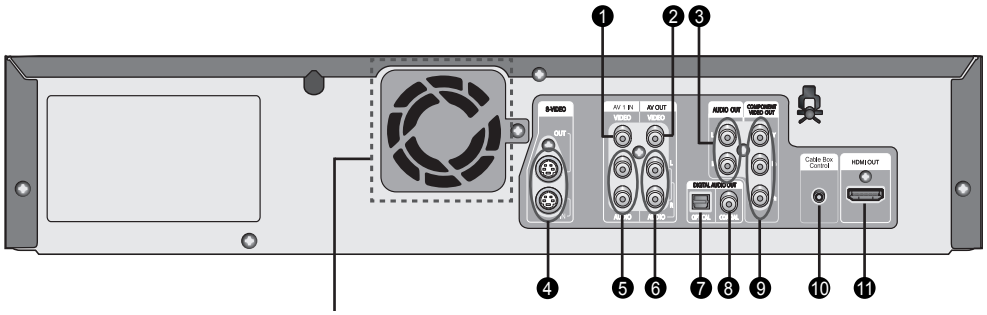
Rear Panel



Fan

The fan always revolves when the power is on.
Ensure a minimum of 4” clear space on all sides of the fan when installing the product.

1. VIDEO INPUT JACK (AV 1 IN)
2. VIDEO OUT JACK (AV OUT)
3. AUDIO OUT JACKS (COMPONENT OUT)
4. S-VIDEO IN/OUT JACKS
5. AUDIO INPUT JACKS (AV 1 IN)
6. AUDIO OUT JACKS (AV OUT)
7. DIGITAL AUDIO OUT JACK (OPTICAL)
8. DIGITAL AUDIO OUT JACK (COAXIAL)
9. VIDEO OUT JACKS (COMPONENT OUT)
10. Cable Box Control OUT
    Connection of the IR Blaster for a cable box or satellite receiver (Set top box).
11. HDMI OUT
    Connects the input of external equipment using an HDMI cable.

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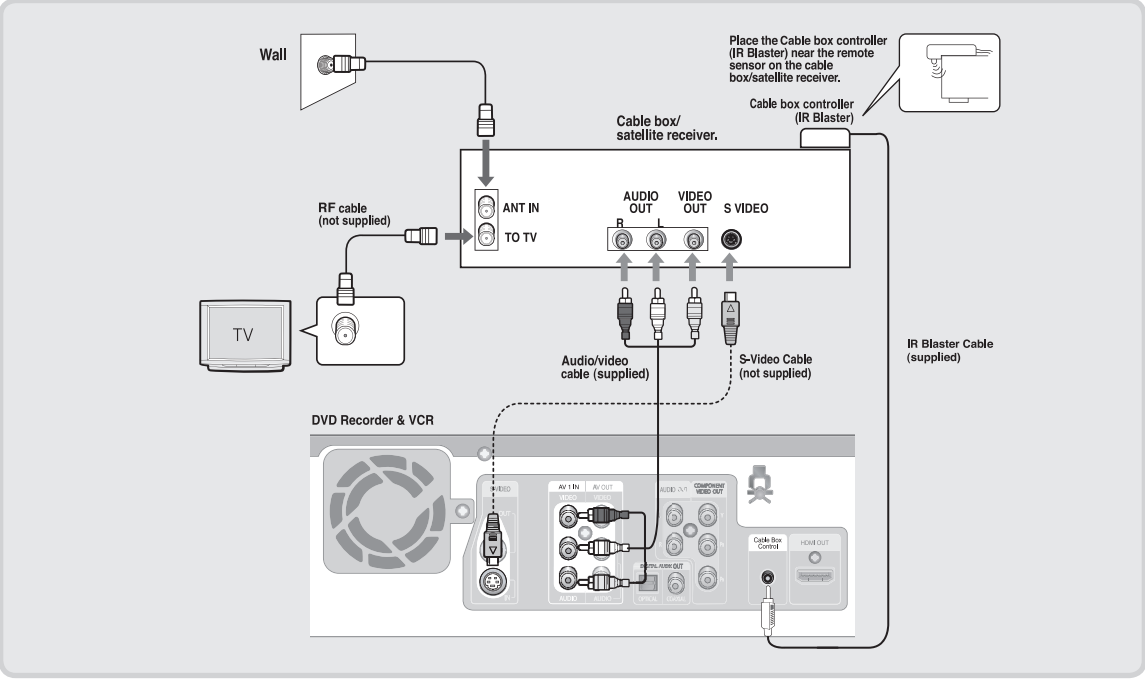
Connecting & Setting Up

Connecting the cable box or satellite receiver (set top box) to DVD Recorder & VCR

TV + Cable box or satellite receiver (Set top box) + DVD Recorder & VCR

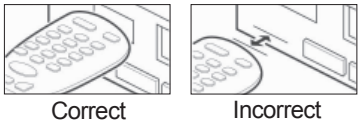
With the connection below, you can watch and record your desired channel on the cable box or satellite receiver (set top box). The DVD-VR357 does not have a TV Tuner , so you must connect a Cable Box or Satellite receiver (set top box) to watch or record TV through TV through this unit.
You can record channels by selecting the channel on the cable box or satellite receiver (set top box).
You cannot record one channel while watching another channel.
Be sure that the cable box or satellite receiver (set top box) is turned on.



Connecting the IR Blaster cable into the Cable Box Control jack

1. Find and Connect the included IR Blaster cable into the Cable Box's Control jack of the DVD Recorder & VCR.
2. Find the Cable Box IR Sensor
   A. Turn the Cable box Off.
   B. Hold the Cable box's remote so that it touches the front of the Cable Box device (see Figure 1).

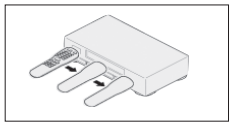
Figure 1



Correct Incorrect

   C. Move the Cable Box's remote across the front of the Cable Box while pressing the remote's power button On and Off (Figure 2).

Figure 2



(Press and release the power button each time you move the remote; holding down the button will not work.)
   D. When the cable box powers On, you have found the sensor.
   E. Remember the location of the sensor.
3. Placing the IR Blaster.
   Place the Cable box controller of the IR Blaster on top or underneath the cable box approximately 1 inch in front of the sensor you found in 2 .
   Use the double-sided tape to secure the IR Blaster.

- You must select a cable box brand from the table on pages 81~83. If you do not know the brand name, please contact your cable provider.
- After setting up your cable box or satellite receiver (Set top box) with the DVD Recorder & VCR through the IR Blaster cable, you need to set up the Set Top Box Control menu.
  (See pages 32~33)
- The DVD-VR357 does not have a TV Tuner.

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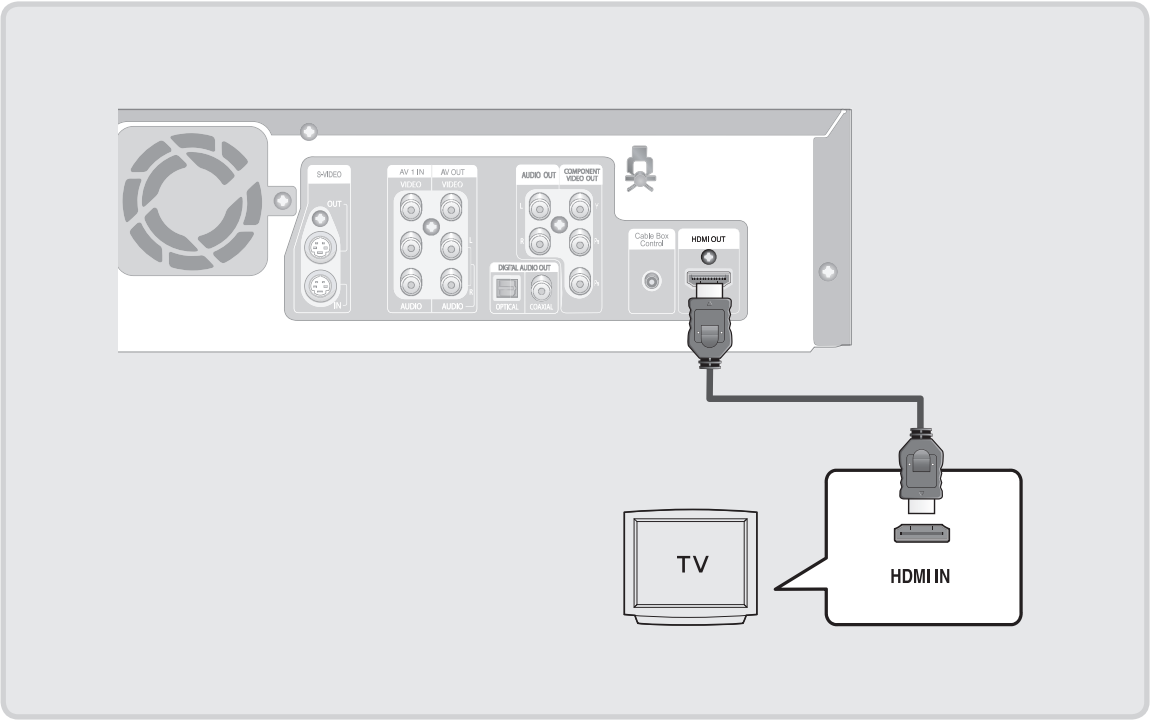
Connecting HDMI/DVI to a TV

Connecting to a TV with an HDMI Jack

HDMI (High Definition Multimedia Interface)
HDMI enables you to make a digital video and audio connection with a single cable. Using HDMI, the DVD player transmits a digitial video and audio signal and displays a vivid picture on a TV having an HDMI input jack."
Using an HDMI- HDMI cable(not included) connect the HDMI OUT jack on the rear of the DVD Recorder & VCR to the HDMI IN jack of your TV.
Press the input selector on your TV remote control until the HDMI signal from the DVD Recorder & VCR appears on your TV screen.



- To hear audio on your TV when using HDMI, set the digital audio output to PCM (2 channel). (See page 27)
- Depending on the HDMI device (TV/HDMI Receiver) you use, audio may not be supported. If your TV does not support Dolby digital/DTS, Audio output is not available when you set the Digital output as Bitstream or select DTS On in the Audio setup menu. In this case, set the digital audio output to PCM or DTS Off.
- If you use an HDMI cable to connect a Samsung TV to the DVD recorder & VCR, you can operate the recorder using the TV remote control. (This is only available with SAMSUNG TVs that support Anynet+(HDMI-CEC).) (See page 35)
- HDMI (High Definition Multimedia Interface) HDMI enables you to make a digital video and audio connection with a single cable. Using HDMI, the DVD and VCR player transmits a digitial video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- When HDMI is connected, you can still record TV via Video or S-Video on the VCR, but you cannot copy from the DVD player to the VCR.
- Please check the Anynet+ logo (If your TV has an Anynet+ logo, then it supports Anynet+ function.)

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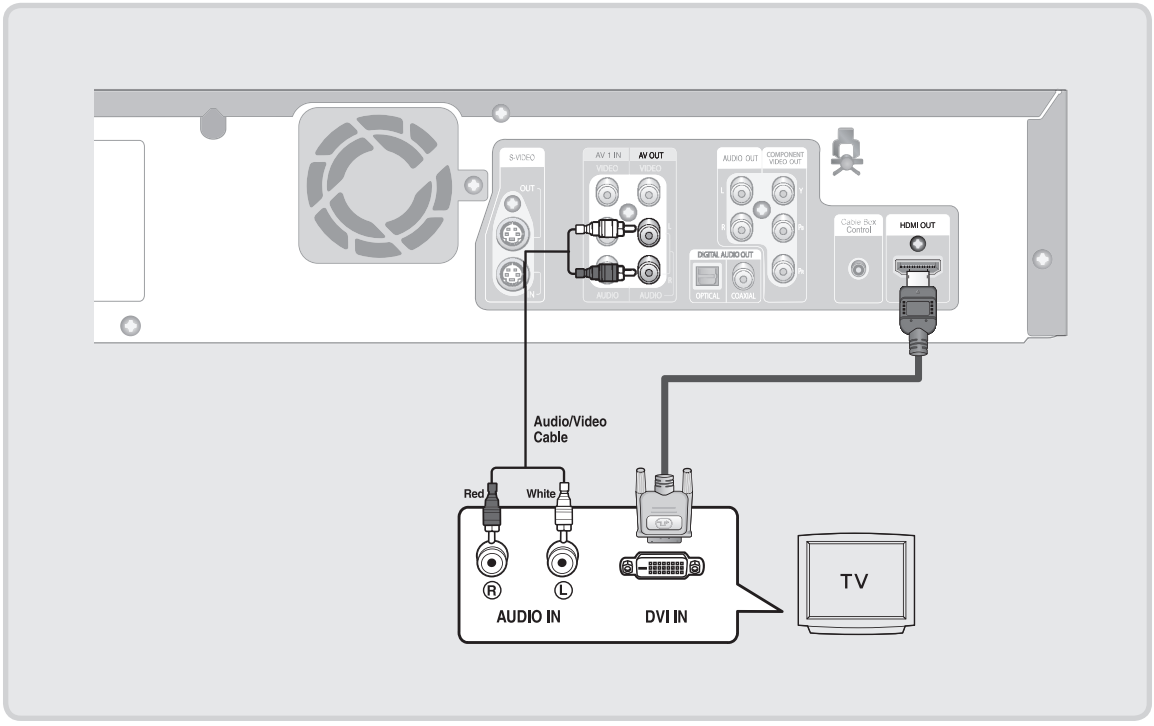
Connecting to a TV with a DVI Jack

Using an HDMI-DVI cable (not included), connect the HDMI OUT terminal on the rear of the DVD Recorder & VCR to the DVI IN terminal of your TV.
An HDMI to DVI connection requires a separate audio connection, using the audio cables, connect the AUDIO (red and white) OUT (AV OUT) terminals on the rear of the DVD Recorder & VCR to the AUDIO (red and white) IN terminals of your TV. Turn on the DVD Recorder & VCR and TV.
Press the input selector on your TV remote control until the DVI signal from the DVD Recorder & VCR appears on your TV screen.



- To set the HDMI output resolution (480p/720p/1080i), see page 29.
- **HDMI (High Definition Multimedia Interface)**
  HDMI enables you to make a digital video and audio connection with a single cable.
  Using HDMI, the DVD and VCR player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- HDMI is completely compatible with DVI.
  The only difference between HDMI and DVI is that HDMI supports multi-channel audio.
- **HDMI connection description**
  HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).
  - Even though the DVD Recorder & VCR records analog audio and video, with HDMI the analog signal is converted to digital signal and is sent to the TV.
  - If your TV does not support HDCP (High-bandwidth Digital Content Protection), snow noise appears on the screen.
- **Why does Samsung use HDMI?**
  Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Recorder & VCR) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no digital-to-analog conversion and is a pure digital signal from the DVD Recorder & VCR to your TV.
- **What is the HDCP?**
  HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content output via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

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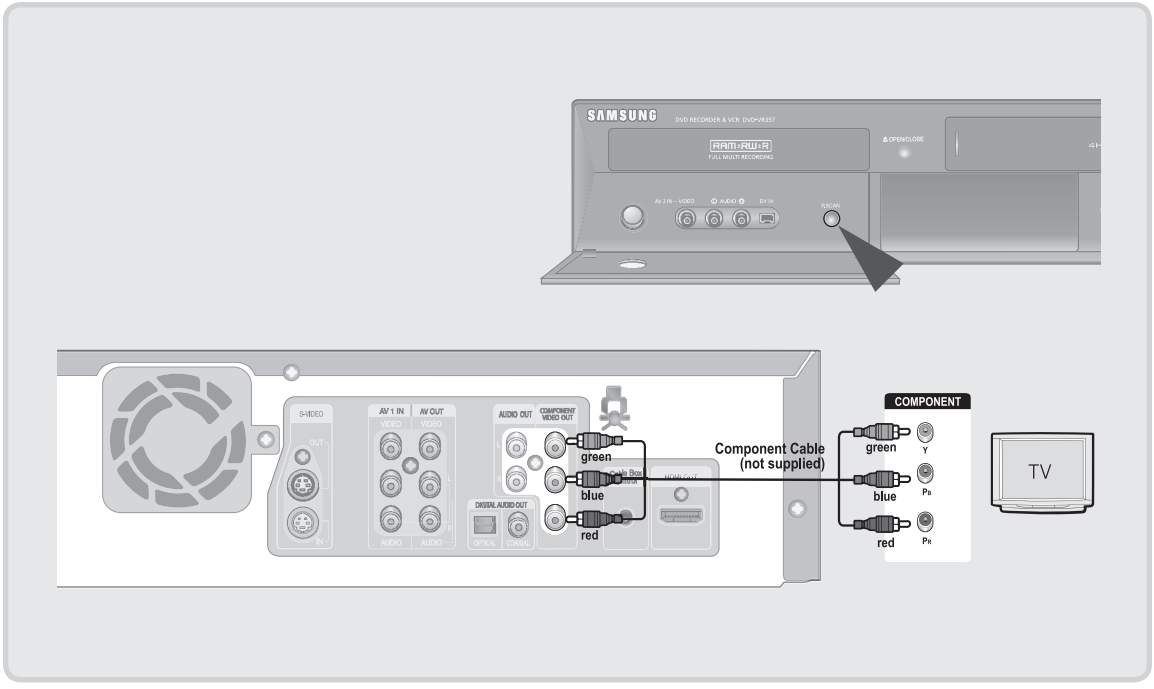
Connecting the Video Cable

There are several ways to connect your DVD Recorder & VCR. Select one of the video connections on the following pages.
You must use one of the following audio/video connections on this unit.

Connecting to Component Video Input Jacks (Y,P_B,P_R)

Connect Component video cables (not supplied) between the COMPONENT OUT (Y,P_B,P_R) jacks on DVD Recorder & VCR and COMPONENT IN (Y,P_B,P_R) jacks on your TV.



- You will enjoy high quality images. Component video separates the picture element into black and White(Y), blue(P_B), red(P_R) signals to present clear and clean images.
- Connect the audio cables(white and red) between the Component AUDIO OUT jacks on the DVD Recorder & VCR and Component AUDIO IN jacks on your TV(or AV amplifier). (See pages 21~23)
- Progressive scan
  - If your TV supports Progressive Scan, you can enjoy higher quality video by pressing the P.SCAN button. (The component cable has to be connected.)
    1. With the unit in Stop mode, press the P.SCAN button on the front of the DVD Recorder & VCR.
    2. The message “Press “Yes” to confirm Progressive scan mode. Otherwise press “No”” will appear. Press the ◄ ► buttons to select Yes, and then press the ENTER button.

■ Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a clearer, more stable, and flicker free image than interlaced video. The component output jack of the DVD player can be used for progressive output mode, which is only available with TVs that support progressive scan.

■ Progressive Scan Output (480p)
Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. If you experience 480p progressive scan picture problems, it is recommended that you switch the connection to the ‘standard definition’ output. If there are questions regarding TV set compatibility with this model, please contact our customer service center at 1-800-SAMSUNG.

■ The Component jacks will not output video resolutions above 480p. To view 720p and 1080i, connect the DVD-VR357 to your TV with an HDMI-HDMI cable. With HDMI connected, press the P.SCAN button to alternate between all available resolutions. (See page 29)

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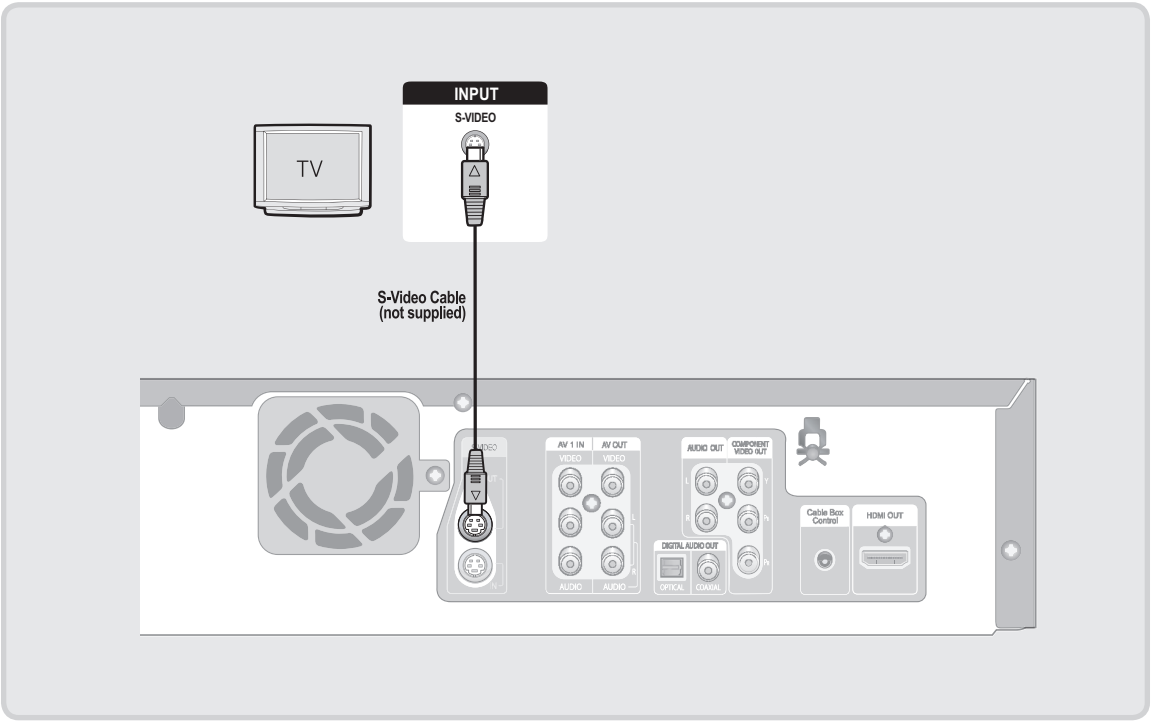
Connecting to an S-Video Input Jacks

Connect an S-Video cable(not supplied) between the S-VIDEO OUT jack on DVD Recorder & VCR and S-VIDEO IN jack on your TV.



- You will enjoy high quality images. S-Video separates the picture element into black and white (Y) and color (C) signals to present clearer images than regular video input mode. This connection outputs the 480i resolution to your TV.
- Connect the audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder & VCR and AUDIO IN jacks on your TV(or AV amplifier).
(See pages 21~23)

■ S-Video and Component video output are available only if your TV supports S-Video input or Component video input, respectively.
If S-Video or Component video output does not work, check your TV connections and the TV input selection settings.

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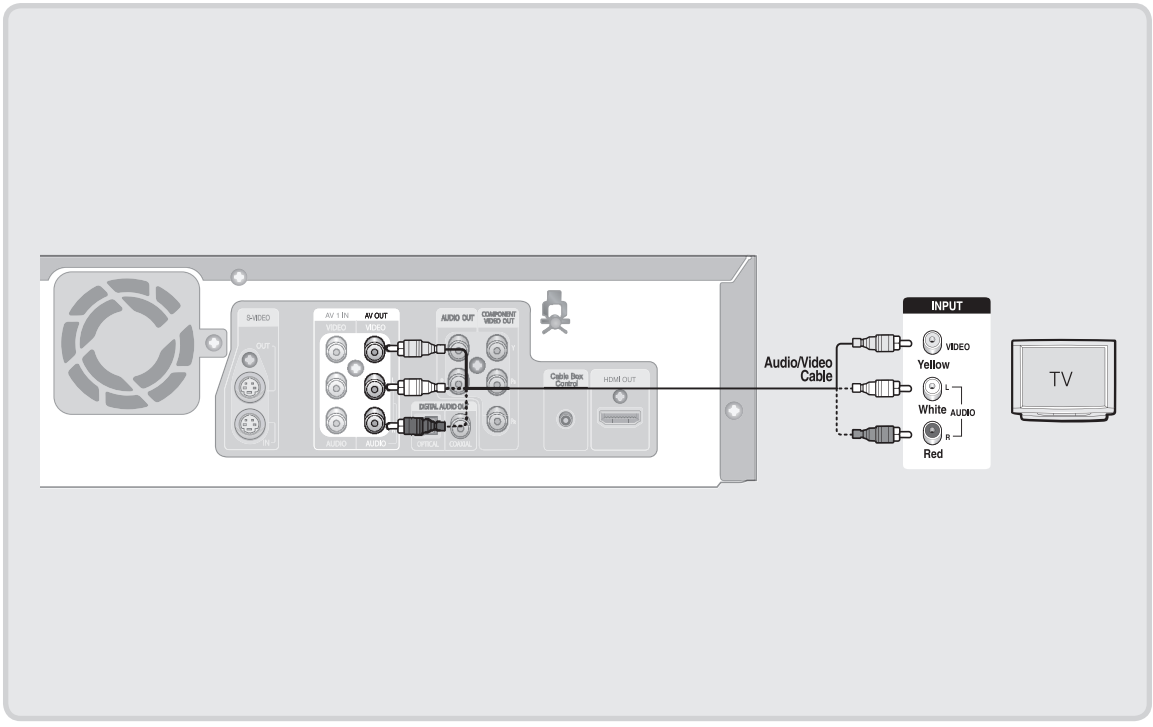
Connecting to a Video Input Jacks

Connect a video(yellow) cable between the VIDEO(yellow) OUT jack on DVD Recorder & VCR and VIDEO(yellow) IN jack on the TV.



- You will enjoy regular quality images.
  This connection outputs the 480i resolution to your TV.
- Connect the audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder & VCR and AUDIO IN jacks on your TV(or AV amplifier).
  (See pages 21~23)

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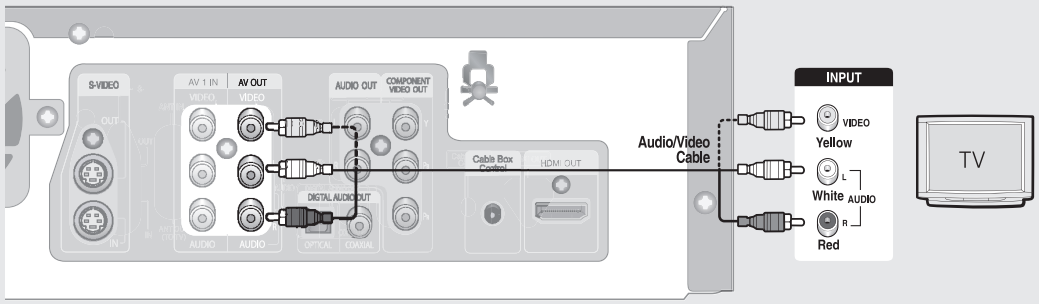
Connecting the Audio Cable

Select one of the Audio connections on the following pages.

Connecting to your TV

This connection will use your TV's speakers.



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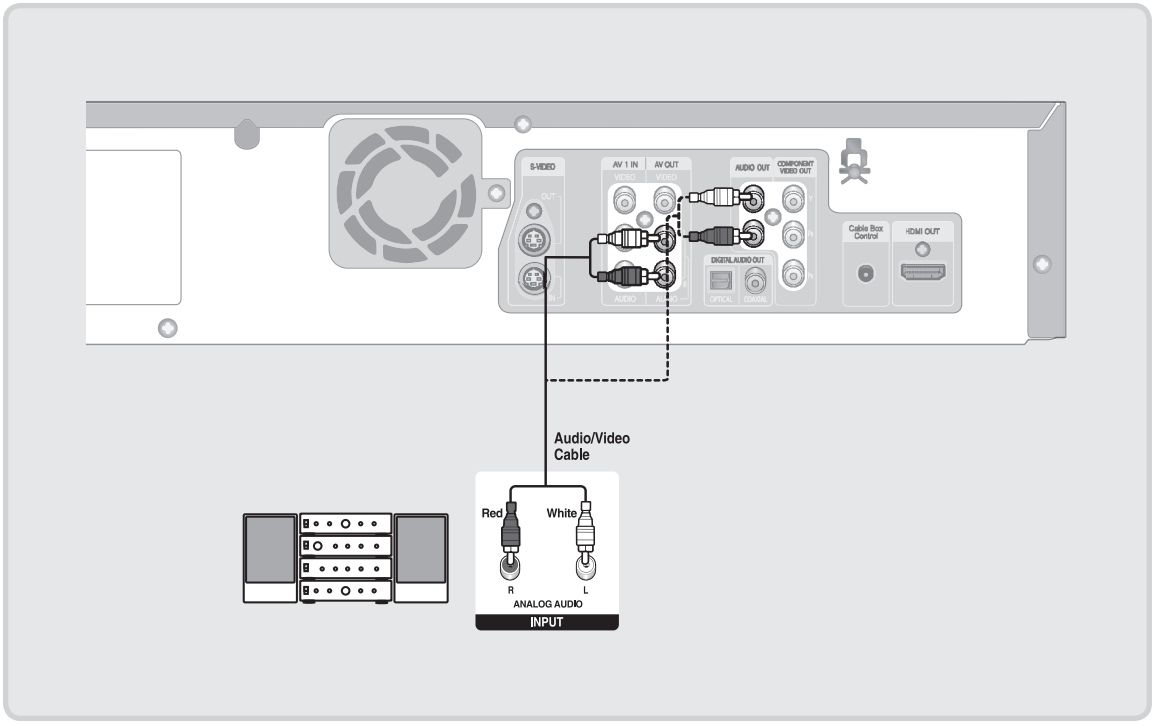
Connecting to a Stereo Amplifier with Analog Input Jacks

If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT (AV OUT) jacks.



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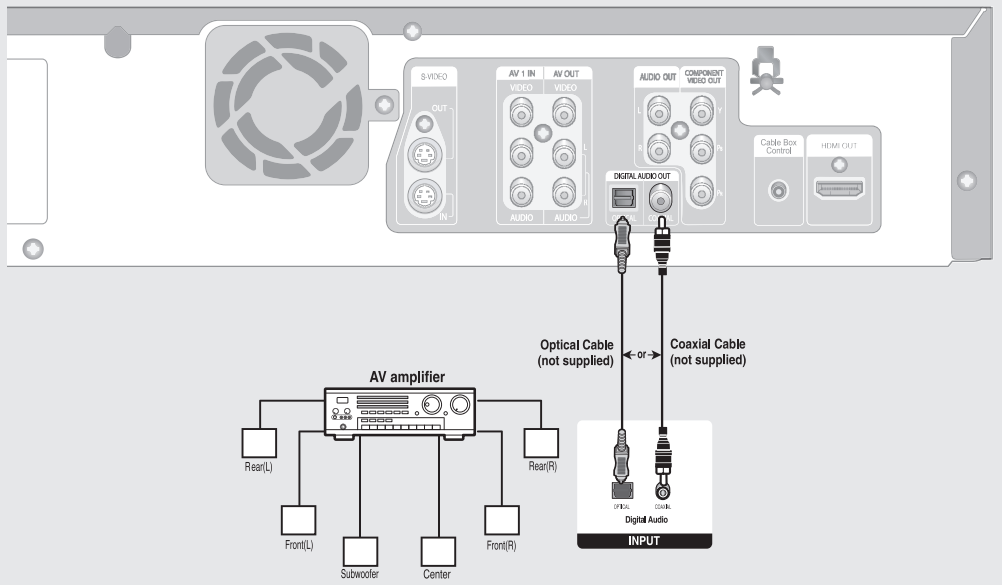
Connecting to an AV Amplifier with a Digital Input Jack

If your AV amplifier has a Dolby Digital or DTS decoder and a digital input jack, use this connection.
To enjoy Dolby Digital or DTS sound, you will need to set up the audio settings. (See page 27)



Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

“DTS” and “DTS Digital Out” are trademarks of DTS, Inc.

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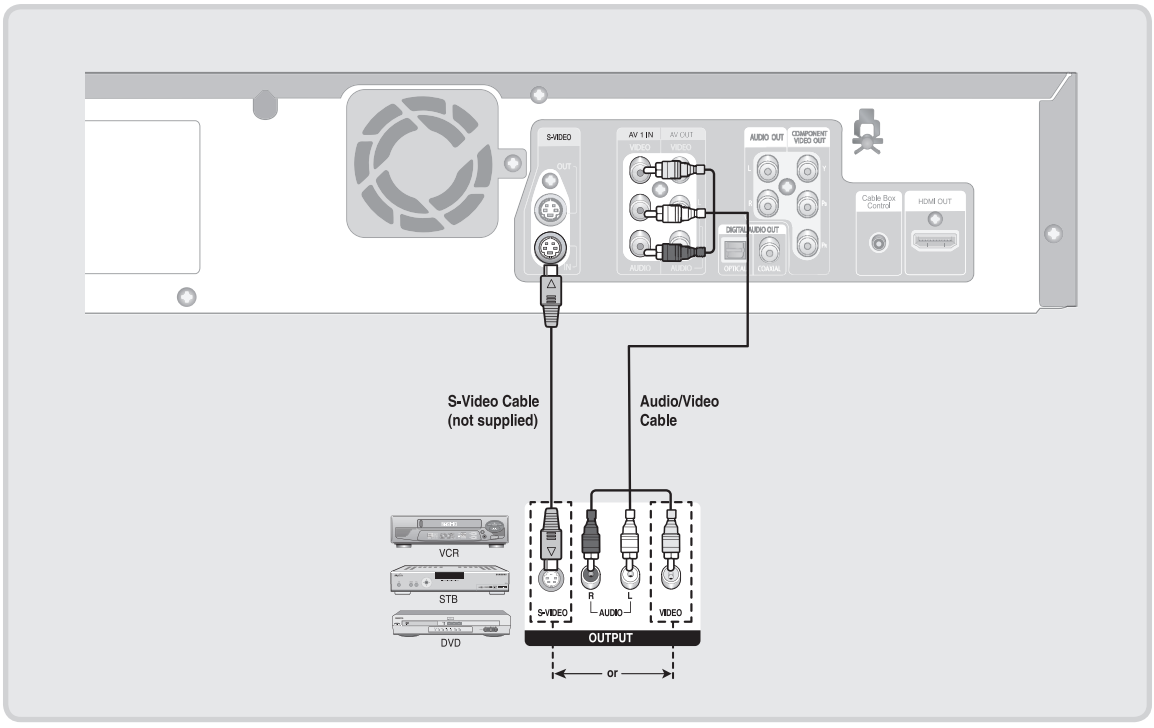
Connecting External Devices

This allows you to connect your DVD Recorder & VCR to other external devices and view or record their outputs.

Connecting a VCR, cable box/satellite receiver (Set top box) or DVD player to the AV 1 IN or S-VIDEO IN Jacks

Connecting a VCR or external device to AV 1 IN jacks of the DVD Recorder & VCR. If desired, you can connect an S-Video cable to the S-Video In jack instead of connecting the Video (yellow) cable. You can record from connected equipment (VCR, cable box/satellite receiver (Set top box) or DVD).



- You can also use the AV 2 IN jacks on the front panel of the DVD Recorder & VCR.
- Press the INPUT SEL. button to select the AV1 or S-Video input.
- Copy protected content cannot be recorded.
- Depending on your input connection, you must choose **AV 1 (Composite)** or **S-video**. (See page 32)

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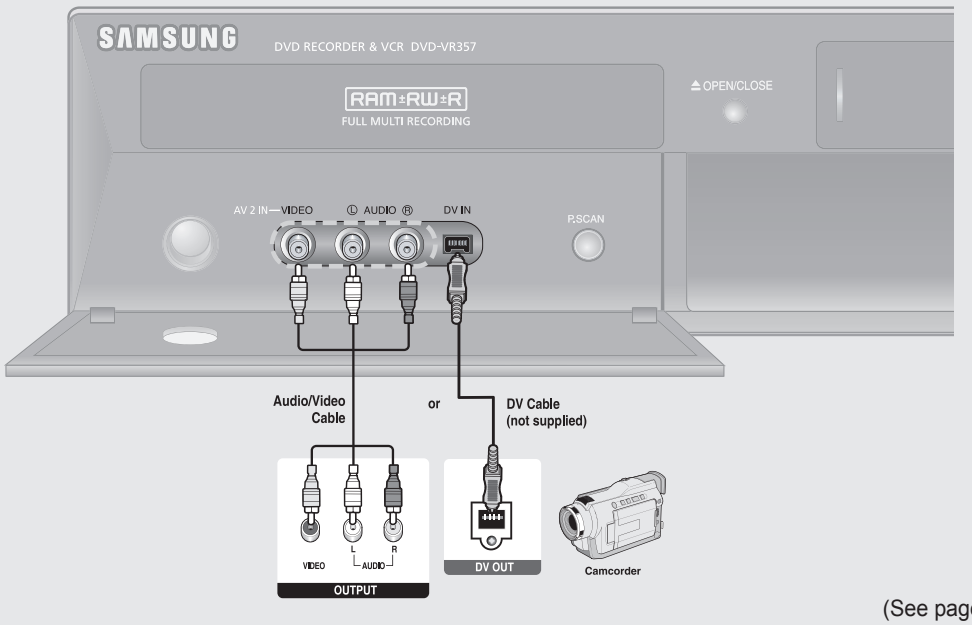
Connecting a Camcorder

You can record from connected equipment, such as a camcorder by using the AV2 IN or DV IN jacks on front of the DVD Recorder & VCR.



(See page 55)

- If the Input is not selected automatically, press the **INPUT SEL.** button on the remote control to select desired input.
- Check your camcorder's owner's manual to see how to use the camcorder in this mode.

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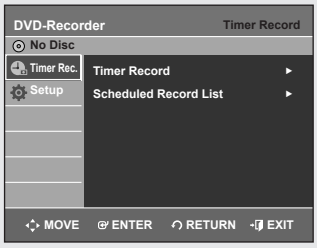
System Setup

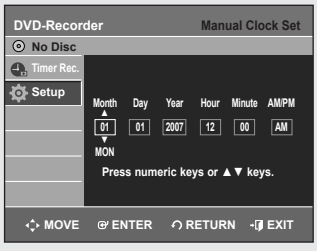
On-Screen Menu Navigation



The on-screen menus allow you to enable or disable various functions on your DVD Recorder & VCR.
Press the MENU button to open the on-screen menu and then use the following buttons to navigate through the on screen menus.

1. **▲▼, ◄ ► Buttons**
   Press these buttons on the remote control to move the selection bar ▲▼,◄ ► to cycle through the menu options.
2. **ENTER Button**
   Press this button on the remote control to confirm any new settings.
3. **RETURN Button**
   Press this button on the remote control to return to the previous menu screen displayed or to exit the on-screen menu.
4. **EXIT Button**
   Press this button to exit the on-screen menu.

Clock Set



This menu is used to set the current time. You need to set the time to use timer recording.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Clock Set**, then press the **ENTER** or ► button.
4. Press the ▲▼◄ ► buttons to select the Current Date and Time, then press the **ENTER** button.
   When the current time is stored in memory and then the set is powered off, the current time will appear in the front panel display.
   ▲▼ : Sets the value
   You can set the value using the number (0~9) buttons.
   ◄ ►: Moves to items

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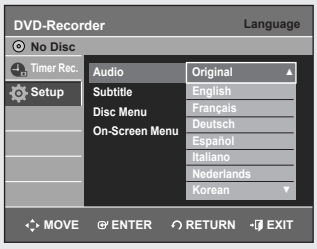


Setting Up the Language Options

If you set the language options in advance, they will come up automatically every time you watch a movie.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Language**, then press the **ENTER** or ► button. The Language setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired language option, press the **ENTER** or ► button.
   - **Audio** : For the disc audio language.
   - **Subtitle** : For the disc subtitles.
   - **Disc Menu** : For the disc menu contained on the disc.
   - **On-Screen Menu** : For the on-screen menu of your DVD Recorder & VCR.
5. Press the ▲▼ buttons to select the desired language, then press the **ENTER** or ► button.

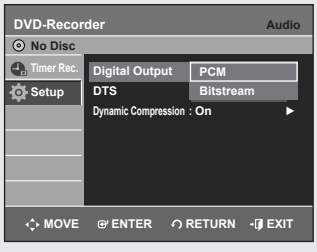
■ If the selected language is not recorded on the disc, the original pre-recorded language is selected.

■ The selected language will only appear if it is supported on the disc.

Setting Up the Audio Options

Allows you to setup the audio device and sound status settings depending on the audio system in use.

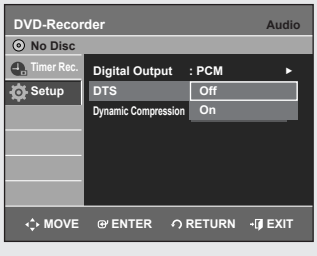
1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Audio**, then press the **ENTER** or ► button. The Audio setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired audio option, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.



Digital Output

- **PCM** : Converts to PCM(2CH) 48kHz audio.
  Select PCM when using the Analog Audio Outputs.
- **Bitstream** : Converts to Dolby Digital Bitstream.
  Select Bitstream when using the Digital Audio Outputs.

■ Be sure to select the correct Digital Output or no audio will be heard.



DTS

- **Off** : Doesn't output digital signal.
- **On** : Outputs DTS bitstream. (via Digital Audio Output)
  Select DTS when connecting to a digital amp with a DTS decoder.

■ When a DTS soundtrack is played, sound is not output from the Analog Audio Output (AV OUT).

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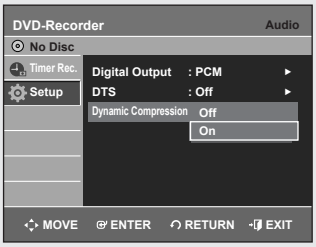


Dynamic Compression

This is only active when a Dolby Digital signal is detected.

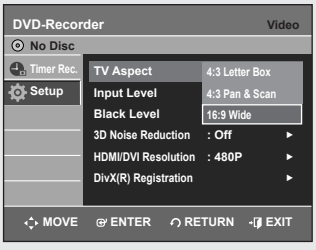
- **On :** When the Movie soundtracks are played at low volume or from small speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
- **Off :** You can enjoy the movie with the standard Dynamic Range.

Setting Up the Video(Display) Options

This function allows you to setup the TV screen settings.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Video**, then press the **ENTER** or ► button. Video option menu will be displayed.
4. Press the ▲▼ buttons to select the desired video option, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.

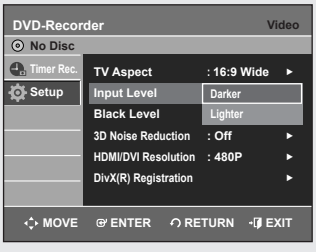
■ Press the **RETURN** or ◄ button to return to the previous menu. Press the **EXIT** button to exit the menu.



TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

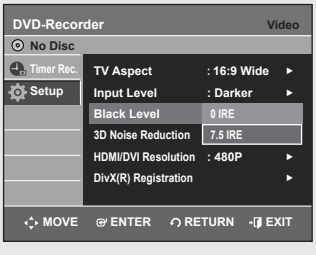
- **4:3 Letter Box** : Select when you want to see the total 16:9 ratio screen that a DVD supplies. Even though you have a TV with a 4:3 ratio screen, black bars will appear at the top and bottom of the screen.
- **4:3 Pan & Scan** : Select this for a conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- **16:9 Wide** : You can view the full 16:9 picture on your wide-screen TV.



Input Level

Adjusts the level of the input signal.

- **Darker** : If you feel the screen is too light and you want to make the screen darker.
- **Lighter** : If you feel the screen is too dark and you want to make the screen lighter.



Black Level

Adjusts the black level of the screen.

- **0 IRE** : This is the standard NTSC reference black level for consistent brightness/contrast across all sources. Select this when you want to make the screen darker.
- **7.5 IRE** : This will enhance the black level for increased brightness/ contrast when viewing DVDs. Select this when you want to make the screen lighter.

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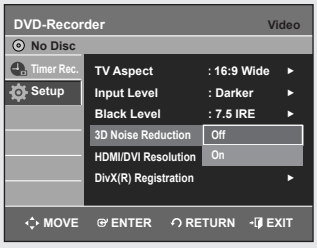
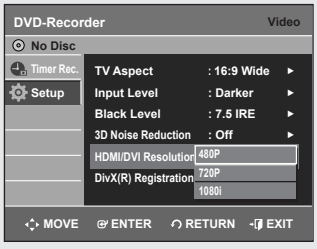


3D Noise Reduction

- **Off** : Normal
- **On** : Select to remove noise from the screen.

- This function depends on disc type. It may not work for some disc types.
- IRE: Short for the Institute of Radio Engineers. An IRE unit is a relative unit of measure equaling 1/140th of the peak-to peak (p-p) video amplitude.
- Black level function is not available in the progressive scan mode.



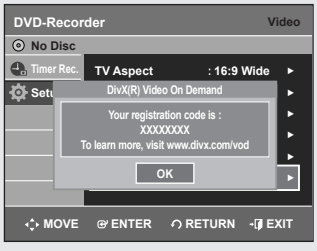
HDMI/DVI Resolution

This setting is used when the unit is connected by HDMI or DVI to Display devices (TV, Monitor, etc).

- **480p** : 720 x 480
- **720p** : 1280 x 720
- **1080i** : 1920 x 1080
- Connect the DVD-VR357 to your TV via HDMI or DVI. Set your TV's input to HDMI or DVI.
- Press the **P.SCAN** button while the unit is in stop mode to select the output resolution.
  - If your TV is connected the HDMI or DVI cable, the output resolution mode changes in the following sequence each time you press the **P.SCAN** button:

    → 480p → 720p → 1080i.

  - If the DVD Recorder is connected to your TV with Component cables (no HDMI/DVI cable connected), the output resolution mode toggles between 480p/480i.



DivX(R) Registration

Please use the Registration code to register your DVD Recorder & VCR with the DivX(R) Video On Demand format.
To learn more, visit www.divx.com/vod

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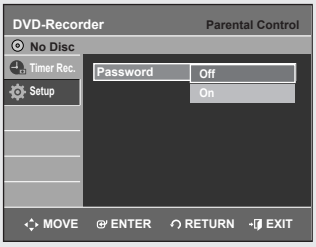
Setting Up the Parental Control

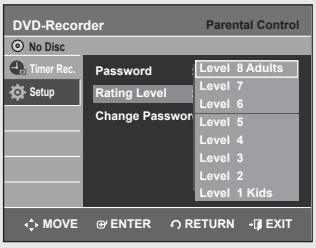


The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button on the remote control.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Parental Control**, then press the **ENTER** or ► button.
4. Create a 4-digit password using the 0 to 9 buttons on the remote control.
5. The Re-enter Password screen appears to confirm the password. Enter your password again, and then press the **ENTER** or ► button.
6. Press the ▲▼ buttons to select **On**, then press the **ENTER** or ► button. The Parental Control screen appears.

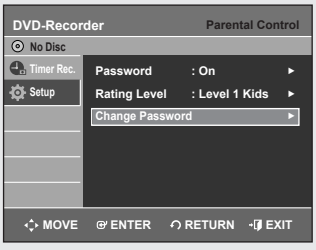
■ Refer to Troubleshooting if you forget your password. (See page 78)

Changing the Rating Level



1. Press the ▲▼ buttons to select **Rating Level**, then press the **ENTER** or ► button.
2. Press the ▲▼buttons to select the rating level you want, then press the **ENTER** or ► button.
   For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the program is intended for adult use only.

Changing the Password



1. Press the ▲▼ buttons to select **Change Password**, then press the **ENTER** or ► button.
2. Enter the 4-digit password using the number buttons on the remote control.
   The 'Confirm the password' message will be displayed.
3. Enter your password again.

■ Press the **RETURN** or ◄ button to return to the previous menu. Press the **EXIT** button to exit the menu.

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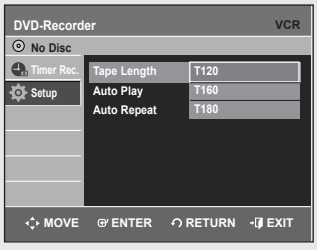
VCR Setting

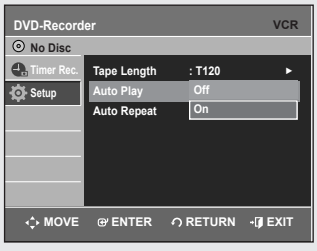
This function allows you to set up the VCR.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **VCR**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select the desired VCR option, then press the **ENTER** or ► button.
6. Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.



Tape Length

This information is usually printed on the tape box.
The menu cycles through: T-120, T-160 or T-180.
Once the type of cassette is set, the VCR can display the amount of time remaining on the tape when you press the INFO button.



Auto Play

If you want your videotapes to play automatically when you insert them, turn on Auto Play.

- **Off** : Auto play is disabled.
- **On** : The VCR will automatically begin playing a video tape when it is inserted, as long as the safety tab of the cassette has been removed.

Auto Repeat

It sets the VCR to play a tape repeatedly (unless a tape control is activated :Stop, Fast Forward or Rewind).

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Cable Box Control

If you have your cable box/satellite receiver (set top box) connected as shown on page 15, it can be controlled after setting up this menu.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.

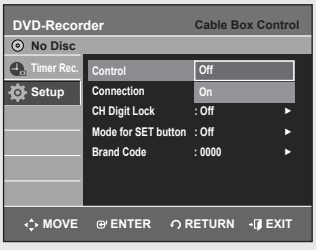
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button. System menu will be displayed.

4. Press the ▲▼ buttons to select **Cable Box Control**, then press the **ENTER** or ► button.
Cable Box Control menu will be displayed.

5. Press the ▲▼ buttons to select the desired option, then press the **ENTER** or ► button.

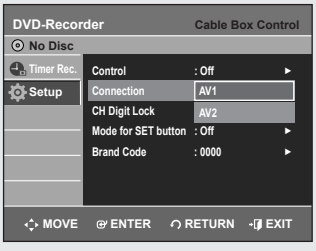
6. Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.



Control

Select the sub item(**Off** or **On**) using the ▲▼ buttons, then press the **ENTER** button.

- **Off** : Turns off the cable box or satellite receiver (set top box) control function. Select this if you do not want to use the supplied cable box controller (IR Blaster).
- **On** : Turns on the cable box or satellite receiver (set top box) control function.



Connection

Select the sub item (**AV1** or **AV2**) using the ▲▼ buttons, then press the **ENTER** button.
If you connect your cable box or satellite receiver (set top box) to the recorder's audio/video input. (page15)

- **AV1** : Select this when the cable box or satellite receiver (set top box) is connected to the DVD Recorder & VCR's AV1 IN jacks.
  You can watch the output of the cable box or satellite receiver (set top box) connected to AV1 when the Recorder is powered off.
- **AV2** : Select this when the cable box or satellite receiver (set top box) is connected to the DVD Recorder & VCR's AV 2 IN jacks.
- **S-Video** : Select this when the cable box or satellite receiver (set top box) is connected to the DVD recorder's S-Video IN jack.
  You can't select AV1 when the cable box or satellite receiver (set top box) is connected to the S-Video input.

■ See the instruction supplied with your cable box or satellite receiver (set top box) to confirm the box's antenna output channel.

■ The DVD-VR357 dose not have a TV tuner.
Recording TV broadcasts is possible via Connection to Cable/ Satellite boxes and Multi Channel Video Services.

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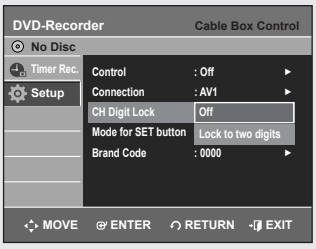
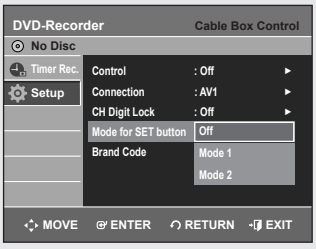


CH Digit Lock

Select the sub item(**Off** or **Lock to two digits**) using the ▲▼ buttons, then press the **ENTER** button.

- **Off** : Select this when your cable box or satellite receiver (set top box) only accepts a three or more digit channel numbers. Normally select this.
- **Lock to two digits** : Select this when your cable box or satellite receiver (set top box) only accepts a two digit channel number.

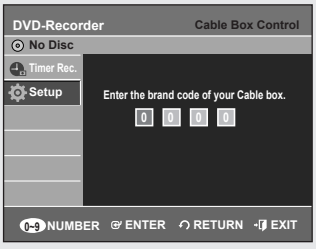


Mode for SET button

Some cable box or satellite receiver (set top box) require you to press SET after pressing the channel number. If your cable box or satellite receiver (set top box) operates this way, follow the instructions below to set Mode 1 or 2.
Select the sub item(**Off, Mode 1** or **Mode 2**) using the ▲▼ buttons, then press the **ENTER** button.

- **Off** : No code is sent when the **SET** button is pressed. Normally select this.
- **Mode 1** or **Mode 2** : Sends the channel number you entered.

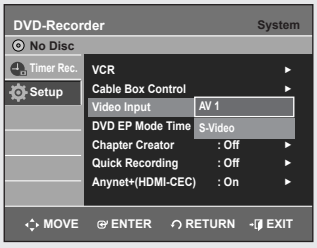
- If "Mode 1" does not work, try "Mode 2."
- If your cable box or satellite receiver (set top box) does not respond to either setting, contact the manufacturer of the cable box or satellite receiver (set top box).



Brand Code

Enter the brand code of your cable box or satellite receiver (set top box) using the number buttons, then press the **ENTER** button.
(See "Cable Box/Satellite Receiver Brand Code Table" on pages 81~83.)

- If you cannot get the recorder to control your cable box/satellite receiver (set top box), check the connection and position of the IR Blaster cable.(page 15) If your cable box or satellite receiver still does not operate with this recorder, contact your cable company to see if they can provide you with a compatible cable box or satellite receiver.
- This menu may not work depending on your cable box or satellite receiver (set top box).



Video Input

You can watch video from an external component through the AV 1(Composite) or S-video input jacks.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Video Input**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **AV 1** or **S-Video**, then press the **ENTER** or ► button.

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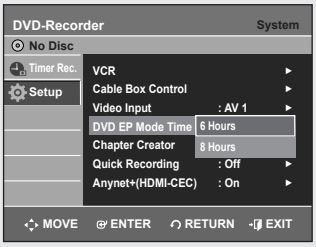
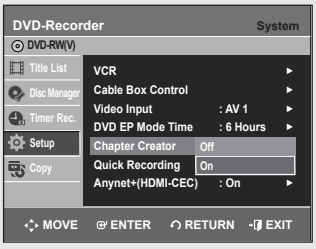
DVD EP Mode Time

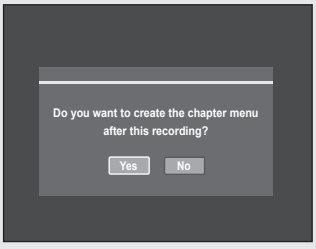


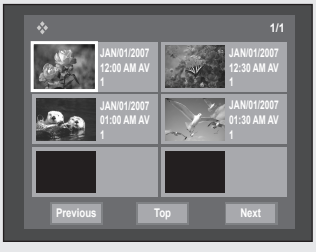
You can set the EP(Extended Play)mode's time setting to 6 or 8 hours.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **DVD EP Mode Time**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **6 Hours** or **8 Hours**, then press the **ENTER** or ► button.

Automatic Chapter Creator







DVD-RW DVD-R
(V mode)

A DVD-Video consists of 'Titles' and 'Chapters'.
When you record one program, it makes one Title.
If you use this function, the Title will be divided into Chapters.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Chapter Creator**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **On**, then press the **ENTER** or ► button. Press the **EXIT** button to exit the menu.
6. Set the recording speed by pressing the **REC SPEED** button on the remote (see page 52 for more information on recording speeds).
7. Press the **REC** button to start recording.
   The message "Do you want to create the chapter menu after this recording?" is displayed.
8. Press the ◄► buttons to select **Yes** and press the **ENTER** button and recording begins.
   In XP and SP mode, you must record at least 5 minutes to create a chapter. In LP and EP mode, 15 minutes.
9. Press the **STOP** button to stop recording.
10. To display the created titles, finalize the disc (see page 76) and then press the **TITLE MENU** button. The title menu will be displayed.
11. To display the created chapters, select the desired Title and then press the **DISC MENU** button. The chapter menu for the selected Title will be displayed.

■ On DVD-RW discs, additional chapters and titles can be added to a finalized disc by unfinalizing and recording again.On DVD-R discs, once finalized, no additional chapters or titles can be recorded.

■ The Automatic Chapter Creator function does not work during Timer Recording or when you turn the power off.

■ DVD-R discs cannot be unfinalized.

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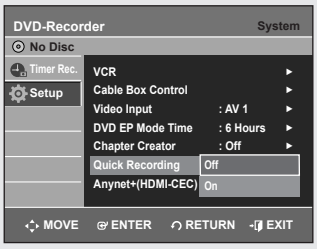
Quick Recording

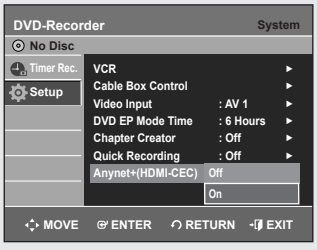


It takes about 10 seconds for a disc to load (initialize) every time you turn on the unit. To bypass this initialization process, you can set the Quick Recording feature to On. This enables you to record immediately without having to wait for the disc to load.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Quick Recording**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **On**, then press the **ENTER** or ► button.

■ The Quick Recording is set to Off as default.
■ If this function is set to on, power consumption Note will be increased when the unit is powered off.

Anynet+(HDMI-CEC)



Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the DVD Recorder & VCR to a SAMSUNG TV using an HDMI Cable. (see page 16) (This is only available with SAMSUNG TVs that support Anynet+.)

1. With the unit in Stop mode/No Disc mode, press the **MENU** button on the remote control.
2. Select **Setup** using the ▲▼ buttons, then press the **ENTER** or ► button.
3. Select **System** using the ▲▼ buttons, then press the **ENTER** or ► button. The system menu will be displayed.
4. Select **Anynet+(HDMI-CEC)** using the ▲▼ buttons, then press the **ENTER** or ► button.
   Anynet+(HDMI-CEC) items will be displayed.
5. Select **On** using the ▲▼ buttons, then press the **ENTER** or ► button.

For using Anynet+(HDMI-CEC)

1. Connect the recorder to a Samsung TV with an HDMI cable. (See page 16)
2. Set the Anynet+(HDMI-CEC) to “On” on your DVD Recorder & VCR. (see above)
3. Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)

• You can operate the DVD Recorder & VCR by using TV remote control. (TV buttons that can be used to control the DVD Recorder & VCR : ⏮, ⏭, ⏪, ⏩, ▲, ▼ and ◄ ► buttons, 0~9 button)

• When you press **Anynet+** button on the TV's remote control, the OSD to the left will appear.
- **DVDR Operation** : Same as **ANYKEY** button (ANYKEY) on the DVD Recorder & VCR remote control.
- **DVDR Menu** : Same as **MENU** button (MENU) on the DVD Recorder & VCR remote control.

TV Menu

■ By pressing the **PLAY** button of the recorder while watching TV, the TV screen will change to the play screen.
■ If you play a DVD when the TV power is off, the TV will power On.
■ If you turn the TV off, the DVD Recorder & VCR will power off automatically. (When the DVD Recorder & VCR is recording, it can't be powered off.)
■ If you change HDMI to other sources (Composite, Component, RF... etc) on your TV while playing a DVD disc, the DVD Recorder & VCR will stop playing. The DVD Recorder & VCR may keep playing certain discs based on their content.

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Playback

This section introduces basic functions of playback by disc type.

Read the following information before playing a disc.

Region code (DVD-Video only)

Both the DVD Recorder & VCR and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this DVD Recorder & VCR is described on the rear panel of the DVD Recorder & VCR.

Logos of Discs that can be played

Dolby Digital

DTS

Digital Audio

DivX

Stereo

NTSC broadcast system in U.S.A, Canada, Korea, Japan,etc.

MP3

Disc types that can be played

Disc Types	Disc Logo	Recorded content	Disc Shape or minute	Max. Playing Time or minute
DVD-VIDEO		VIDEO AUDIO	Single sided(5")	240
			Double sided(5")	480
			Single sided(3.5")	80
			Double sided(3.5")	160
AUDIO-CD		AUDIO	Single sided(5")	74
			Single sided(3.5")	20
JPEG		JPEG Images	Single sided(5")	-
			Single sided(3.5")	-
MP3		MP3 Audio	Single sided(5")	-
			Single sided(3.5")	-
MPEG4		MPEG4 Movie	Single sided(5")	-
			Single sided(3.5")	-
DVD-RAM		VIDEO AUDIO	Single sided(5") (4.7GB)	1hr (XP: Excellent Quality)
				2hrs (SP: Standard Qualit
				4hrs (LP: Long Playback)
				6 or 8hrs (EP:Extended)
			Double sided(5") (9.4GB)	2hr (XP: Excellent Quality)
				4hrs (SP: Standard Qualit
				8hrs (LP: Long Playback)
				12 or 16hrs (EP:Extended)
DVD-RW		VIDEO AUDIO	5" (4.7GB)	1hr (XP: Excellent Quality)
				2hrs (SP: Standard Qualit
				4hrs (LP: Long Playback)
				6 or 8hrs (EP:Extended)
DVD-R		VIDEO AUDIO	Single Layer(5") (4.7GB)	1hr (XP: Excellent Quality)
				2hrs (SP: Standard Qualit
				4hrs (LP: Long Playback)
				6 or 8hrs (EP:Extended)
			Double Layer(5") (8.5GB)	2hr (XP: Excellent Quality)
				4hrs (SP: Standard Qualit
				8hrs (LP: Long Playback)
				11 or 15hrs (EP:Extended)
DVD+RW		VIDEO AUDIO	5" (4.7GB)	1hr (XP: Excellent Quality)
				2hrs (SP: Standard Qualit
				4hrs (LP: Long Playback)
				6 or 8hrs (EP:Extended)
DVD+R		VIDEO AUDIO	Single Layer(5") (4.7GB)	1hr (XP: Excellent Quality)
				2hrs (SP: Standard Qualit
				4hrs (LP: Long Playback)
				6 or 8hrs (EP:Extended)
			Double Layer(5") (8.5GB)	2hr (XP: Excellent Quality)
				4hrs (SP: Standard Qualit
				8hrs (LP: Long Playback)
				11 or 15hrs (EP:Extended)

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Discs That Cannot be Played

- DVD-Video with a region number other than “1” or “ALL”
- 3.9 GB DVD-R Disc for Authoring.
- A DVD±R/DVD-RW(V) disc which has been recorded and not finalized in a different manufacturer's recorder.
- PAL discs
- DVD-ROM/PD/MV-Disc, etc.
- Video CD/CVD/SVCD/CD-ROM/CDV/CD-G/CD-I

■ This DVD Recorder & VCR can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.

■ Playback and/or recording may not work for some types of discs or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the disc is written in detail on the box. Please refer to this if necessary.

■ Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches and deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.

■ DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.

■ Discs with PAL programs recorded on them cannot be played using this product.

Playing a Disc

1. Press the **OPEN/CLOSE** button.

2. Place a disc gently into the tray with the disc’s label facing up.

3. Press **OPEN/CLOSE** button to close the disc tray.
- Your DVD Recorder & VCR closes the disc tray and plays the disc automatically.
- The recorder does not play discs automatically after initially being powered on initially.
- When the recorder is powered on and a disc is in the tray, the unit will be activated and wait in stop mode. Press the **PLAY** button to start playback.
- Power on the unit with the **PLAY** button if you wish to automatically play a disc in the recorder while it is powered off.

4. Press the **STOP** button to stop playback.

■ When you stop playing the disc, the DVD Recorder & VCR remembers where you stopped. When you press the **PLAY** button again, it will pick up where you left off. (unless the disc is removed, the DVD Recorder & VCR is unplugged, or if you press the **STOP** button twice.) This function is only applicable to DVD-VIDEO, DVD-RAM, DVD±RW, DVD±R or Audio CDs (CD-DA).

■ Do not move your DVD Recorder & VCR while playing, as this may cause damage to the disc.

■ Make sure to press the **OPEN/CLOSE** button to open or close the disc tray.

■ Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.

■ Do not place foreign materials on or in the disc tray.

■ Some functions may perform differently or be disabled depending on the disc type. If this occurs, refer to the instructions written on the disc case.

■ Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.

■ After turning the power on, it will take a few seconds until the DVD Recorder & VCR operates.

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Using the Disc Menu and Title Menu

Some discs contain a dedicated menu system that allows you to select special functions for title, chapters, audio track, subtitles, film previews, information on characters, etc.

For DVD-VIDEO Discs

DVD-VIDEO

Disc Menu : Press the **DISC MENU** button to enter the disc menu of the disc.
- Move to the setup menu related to playback operation.
- You can select audio language and subtitle etc., provided by the disc.

Title Menu : Press the **TITLE MENU** button to move to the title menu of the disc.
- Use this button if the disc contains more than one title. Some discs may not support the title menu functionality.

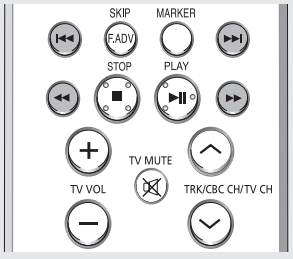
For DVD-RAM/DVD±RW/DVD±R Discs

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Title List : Press the TITLE LIST button. The Title List is simply a list of titles on a disc. If a title is deleted, that title cannot be played again.

Playlist (DVD-RAM/-RW(VR)) : Press the PLAY LIST button. A playlist is a custom-made list of titles. When one playlist is played, only the titles within the playlist will play and then stop. Even if that playlist is deleted, the original recording will not be deleted.

Using the Search & Skip Functions



Searching Through a Chapter or Track

DVD-VIDEO DVD-RAM DVD-RW DVD-R CD MPEG4 DVD+RW DVD+R

During playback, press the **SEARCH** ◀◀ or ▶▶ button on the remote control. Each time you press the **SEARCH** button, the playback speed will change as follows.

DVD-VIDEO/ DVD-RAM/DVD±RW/ DVD±R	▶▶ Fast 1/◀◀ Fast 1 → ▶▶ Fast 2/◀◀ Fast 2 → ▶▶ Fast 3/◀◀ Fast 3 → ▶▶ Fast 4/◀◀ Fast 4 → ▶▶ Fast 5/◀◀ Fast 5 → ▶▶ Fast 6/◀◀ Fast 6
MPEG4	Fast 1 → Fast 2 → Fast 3
AUDIO CD (CD-DA)	X2 → X4 → X8

- You can scan the program in reverse order.

To return to normal speed playback, press the ▶II button.

■ No sound is heard during Scan(Search) mode, except on CDs (CD-DA). (You can hear the sound during forward search (Fast 1).) No sound is heard during scanning in all MPEG4 modes. Depending on the disc type, the sound quality may lower during Fast 1 mode.

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Skipping Chapters or Tracks

DVD-VIDEO DVD-RAM DVD-RW DVD-R CD MPEG4 DVD+RW DVD+R

During playback, press the I◄◄ or ►►I button on the remote control.

- **If you press the I◄◄ button**
  If you press the I◄◄ button, it moves to the beginning of the chapter, track or marker(DVD-RAM, DVD-RW(VR mode)). Pressing the button once again within 3 seconds returns to the beginning of the previous chapter, track or marker(DVD-RAM, DVD-RW(VR mode)).
- **If you press the ►►I button**
  If you press the ►►I button, it moves to the next chapter, track or marker(DVD-RAM,DVD-RW (VR mode))

Skipping Ahead 30 Seconds

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

During the playback, press **F.ADV/SKIP** button to skip ahead exactly 30 seconds.

Slow Motion Play/Step Motion Play

Slow Motion Play

DVD-VIDEO DVD-RAM DVD-RW DVD-R MPEG4 DVD+RW DVD+R

During Still mode, press the **SEARCH** ◄◄ or ►► button on the remote control for more than 1 second.

- Each time you press the ►► button :
  I► Slow 1 → I► Slow 2 → I► Slow 3
- Each time you press the ◄◄ button :
  ◄I Slow 1 → ◄I Slow 2 → ◄I Slow 3

To return to normal speed playback, press the ►II button.

■ Slow motion operates only in the forward direction on MPEG 4 discs.

Step Motion Play

DVD-VIDEO DVD-RAM DVD-RW DVD-R MPEG4 DVD+RW DVD+R

During Still mode, press the **F.ADV/SKIP** button on the remote control.

- Each time the button is pressed, a new frame will appear.

To return to normal speed playback, press the ►II button.

■ No sound is heard during Step or Slow mode.

■ Step motion operates only in the forward direction on MPEG 4 discs.

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Using the ANYKEY button

The ANYKEY functions allows you to easily search for a desired scene by accessing title, chapter or time.
You can also change the subtitle and audio settings and set some features including Repeat, Angle and Zoom.

Moving to a Desired Scene Directly

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

If you want to move to a certain title, chapter or time use this function.

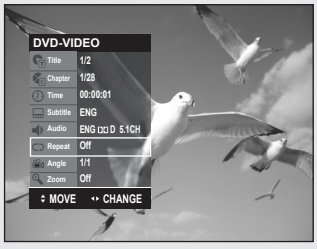
1. Press the **ANYKEY** button during playback.

2. Press the ▲▼ buttons to select a **Title** a **Chapter** or a **Time**.

3. Press the ◄► buttons or number (**0~9**) buttons to select the desired scene. In case of searching a time, enter the time in sequence of hours, minutes, seconds using the number buttons. Then, press the **ENTER** button.

- This may not work for some discs. When an Audio CD(CD-DA) or an MP3 disc is inserted, depending on the disc type, the information display may not be appear.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button.

Repeat Playback



Playing Repeatedly

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

1. Press the **ANYKEY** button during playback.

2. Press the ▲▼ buttons to select **Repeat**.

3. Select repeat mode using ◄► button. Press the **ENTER** button.

- DVD-RAM/DVD-RW(VR mode), unfinalized DVD±R and unfinalized DVD-RW (Video mode) do not repeat a chapter.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button.

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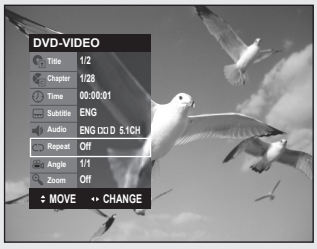
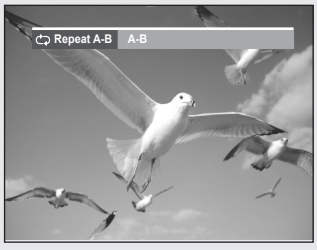
Playing a Certain Section Repeatedly

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R





1. Press the **ANYKEY** button during playback.

2. Press the ▲▼ buttons to select **Repeat**.

3. Press the ◄► button to select **A-B**, then press the **ENTER** button.

4. Press the **ENTER** button at the point where you want repeat play to start (A) and press it again at the point where you want the repeat play to stop (B). Repeat playback of the A-B section starts.

- To return to normal playback -

5. Press the **CANCEL** button to return to normal playback.

- If you set point (B) before five seconds has lapsed, the prohibition mark (⊘) will appear.
- Audio CDs(CD-DA), MP3 and MPEG4 discs do not support the Repeat A-B function.

Selecting the Subtitle Language

DVD-VIDEO MPEG4

Subtitle languages may not work depending on the disc type. This is only available during playback. You can also operate this function by pressing the SUBTITLE button on the remote control.

1. Press the **ANYKEY** button during playback.

2. Press the ▲▼ buttons to select **Subtitle**, then press the ◄► buttons to select the desired subtitle language.

- The subtitle display may be different depending on the disc type.
- If the subtitles overlap, disable the caption function on your TV.
- Some discs allow you to select the language for the disc menu only.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button.

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Selecting the Audio language

Audio languages may not work depending on the disc type. This is only available during playback.
You can also operate this function by pressing the AUDIO button on the remote control.

1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Audio**, then press the ◄► buttons to select the desired audio language.

- Audio languages may be different because they are disc-specific.
- Some discs allow you to select the audio language from the disc menu only.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button.

Changing the Camera Angle

If a DVD-VIDEO contains multiple angles of a particular scene, you can use the Angle function. If the disc contains multiple angles, ANGLE appears on the screen.
You can also operate this function by pressing the ANGLE button on the remote control.

1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Angle**, then press the ◄► buttons or number (0~9) buttons to select the desired angle scene.

- This function is disc-dependent, and may not work all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button.

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Zooming-In

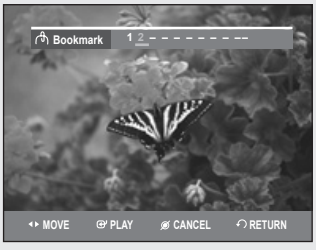
1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Zoom**, then press the **ENTER** button. ( ) will be displayed.
3. Press ▲▼◄ ► buttons to move to the area you want to enlarge.
4. Press the **ENTER** button.
   Each time the **ENTER** button is pressed, the picture is enlarged up to 4X (four times the normal size).

DVD-VIDEO/DVD-RAM/ DVD±RW/DVD±R	normal size → 2X → 4X → 2X → normal size

Using the Bookmarks

(V mode)

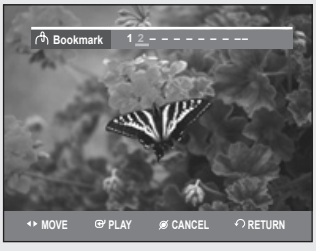
Setting Bookmarks



Set marks at scenes you want to see again so that you can start playback from the marked position.

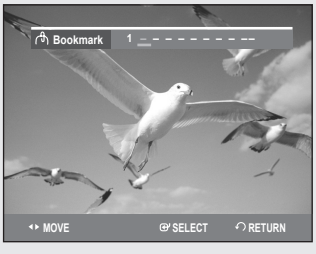
1. Press the **MARKER** button during playback.
2. Press the **ENTER** button when the desired scene appears.
   • The number 1 is displayed and the scene is memorized.
3. Press the ◄► button to move to the next position.
4. Press the **ENTER** button again when the desired scene appears.
   • The number 2 is displayed and the scene is memorized. Repeat the steps above to bookmark other positions. You can bookmark up to 10 scenes.

Playing Back a Bookmark



1. Press the **MARKER** button.
2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **ENTER** or ►II button to start playing from the selected scene.

Clearing a Bookmark



1. Press the **MARKER** button.
2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **CANCEL** button to delete the selected bookmark.

■ When the disc tray is opened and then closed, bookmarks will disappear.

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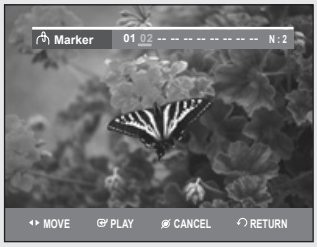
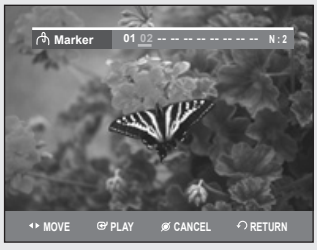
Using the Markers

DVD-RAM DVD-RW
(VR mode)



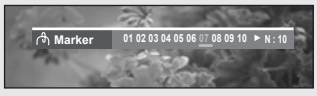
Setting Markers

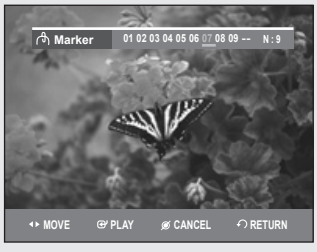
1. Press the **MARKER** button during playback.
2. Press the **ENTER** button when the desired scene appears.
   • The number 01 is displayed and the scene is memorized.
3. Press the ◄► button to move to the next position.
4. Press the **ENTER** button again when the desired scene appears.
   • The number 02 is displayed and the scene is memorized.
   • DVD-RAM or DVD-RW (VR Mode) discs have the Marker function instead of the Bookmark function. The Marker function allows you to mark up to 99 scenes. Since the scenes may be displayed as many different pages, numbering is necessary. If a disc in use is encoded with Disc Protect, Markers cannot be set or deleted. Only playback is available.



Playing Back a Marker

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a marked scene.
3. Press the **ENTER** or **►II** button to start playing from the selected scene.
   • If you press the **NEXT SKIP**(►►I) button or the **PREVIOUS SKIP**(I◄◄) button in marker mode, and the next or current marked point plays for shorter than three seconds, playback starts from the previous marked point.





Clearing a Marker

1. Press the **MARKER** button during playback.
2. Press the ◄ ► buttons to select a marked scene.
   Press the **CANCEL** button to delete the selected mark.
   • When a marker is cleared while a DVD-RAM/DVD-RW(VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move ahead by one and the 8th marker becomes the 7th.

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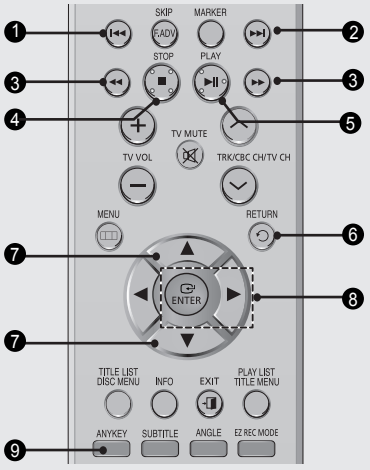
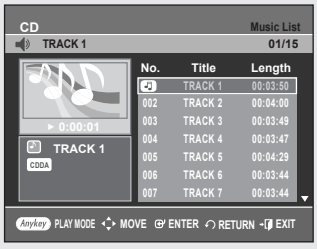
Playing Back an Audio CD (CD-DA)/MP3



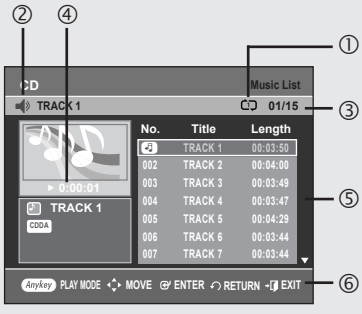
Buttons on the Remote Control Used for Audio CD(CD-DA)/MP3 Playback

1. **I◄◄ button** : Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD Recorder & VCR moves to and plays the previous track.
   If you press this button within three seconds after playback starts, the previous track will be played. If you press this button after three seconds, the current track will be replayed from the beginning.
2. **►►I button** : Plays the next track.
3. **Press the (◄◄ /►►) buttons** : Fast Play (X2, X4, X8) (Audio CD only)
4. **■** : Stops a track (song).
5. **►II** : Plays a track(song) or pauses playback.
6. **RETURN button** : Moves to the folder to which the current song belongs.
7. **▲▼** : Selects a track (song).
8. **►, ENTER button** : Plays the selected track (song).
9. **ANYKEY** : To display the play mode window. (Repeat or Play Option).



Playing an Audio CD (CD-DA)

1. Insert an Audio CD (CD-DA) into the disc tray.
   • The Audio CD menu appears and the tracks (songs) are played automatically.
2. Press the ▲▼ buttons to select the track (song) to start playback from, and then press the **ENTER** button.



◆ **Audio CD(CD-DA) Screen Elements**

1. **Play mode icon.**
2. **Current track (song)** : Displays the number of the track currently being played.
3. Displays the current play index and total track number.
4. This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
5. Displays the track list (song list) and the playing time of each track.
6. Button display

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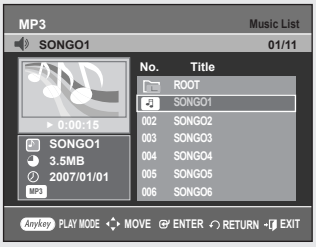
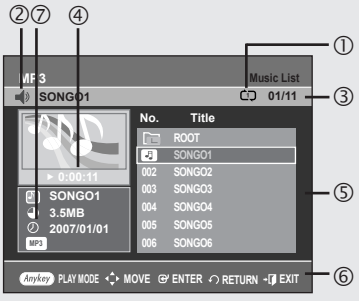


Playing an MP3 Disc

1. Insert an MP3 disc into the disc tray.
2. Press the ▲▼ buttons to select the **Disc Navigation**, and then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select the **Music**, and then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select the track (song) you want to hear, and then press the **ENTER** button.



◆ MP3 Screen Elements

1. **Play mode icon.**
2. **Current track (song)** : Displays the name of the track being played.
3. Displays the current play index and total file number.
4. This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
5. Displays the mp3 file and folder list (song list).
6. Button display.
7. MP3 file information

Repeat Playback of an Audio/MP3 Disc

CD MP3

1. During playback, press the **ANYKEY** button.
   The Repeat mode will be highlighted.
2. Press the ◄ ► buttons to select the desired repeat mode you want to play repeatedly, then press the **ENTER** button.
   - Repeat Track (CD (CD-DA)/MP3)
   - Repeat Folder (MP3)
   - Repeat Disc (CD (CD-DA)/MP3)

- To return to normal playback -

3. Press the **CANCEL** button to return to normal playback.

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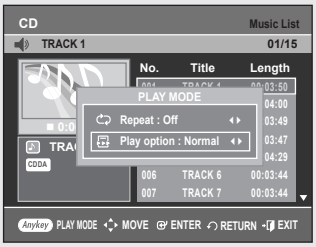
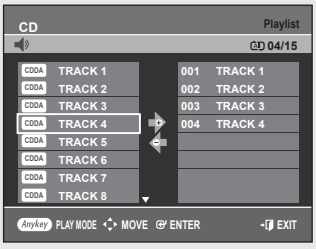


Play Option Mode

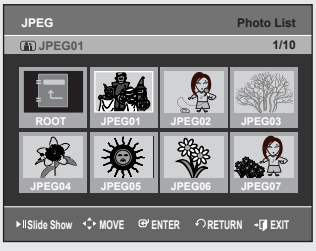
1. During Stop, Press the **ANYKEY** button.
   The Play option will be highlighted.
2. Press the ◄► buttons to select a desired Play Option, then press the **ENTER** button.
   - **Normal** : Tracks on a disc are played in the order in which they were recorded on the disc.
   - **Playlist** : The Playlist playback option allows you to select the order in which you want tracks to play.
   - **Intro[I]** : The first 10 seconds of each track will be played. If you want to listen to the music that you have selected, press the **ENTER** button or **►II** button. The play option will be changed to Normal Play. When Intro Play is completed, Normal Play is performed.
   - **Random[R]** : The Random option plays a disc's tracks in random order. After a random list is generated and played completely, another random list is generated and played.
     Random Play is continued until the play option is changed.



To Program Tracks

You can register a maximum 30 tracks in the playlist.

1. In still mode, press the **ANYKEY** button.
   The Play option will be highlighted.
2. Press the ◄► buttons to select **Playlist**, then press the **ENTER** button.
   Playlist screen is displayed.
3. Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **ENTER** button.
   If there is a track on your playlist you wish to remove. Press the ► button, then press the ▲▼ buttons to select the track you wish to remove, then press the **CANCEL** button. The selected track will be removed.
4. Press the **PLAY** button to play the playlist.



Playing a Picture Disc

1. Insert a JPEG into the disc tray.
2. Press the ▲▼ buttons to select **Disc Navigation**, and then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Photo**, and then press the **ENTER** or ►button.
4. Press the ▲▼◄ ► buttons to select a picture.
   - To see the next 8 pictures, press the **►►I** button.
   - To see the previous 8 pictures, press the **I◄◄** button.

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5-1. If you press the ▶II button, the Slide Show Speed screen will appear. Press the ◄► buttons to set the slide show speed, then press the **ENTER** button.

5-2. Press the **ENTER** button with a picture selected in the Album screen and select a display mode (**Album screen** ( ), **Slide show** ( ), **Rotation** ( ) or **Zoom** ( )) using the ◄► buttons, then press the **ENTER** button.

: Returns to the Album screen.

: The unit enters slide show mode.
Before the slide show can begin, the picture interval (Slide show speed) must be set.

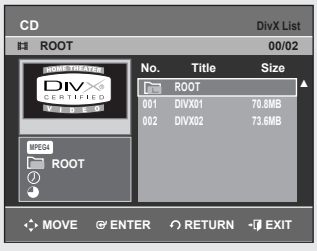
: Each time the **ENTER** button is pressed, the picture rotates 90 degrees clockwise.

: Each time the **ENTER** button is pressed, the picture is enlarged up to 4X(four times the normal size).

normal size → 2X → 4X → 2X

• Press the **ANYKEY** button to display menu bar.

• Press the **RETURN** button to clear the menu bar.



Playing an MPEG4 Disc

MPEG4

An MPEG4 File is used to contain audio and video data.
An MPEG4 File with the following extensions can be played.
- .AVI, .DIVX, .avi, .divx

1. Insert a MPEG4 Disc into the disc tray.

2. Press the ▲▼ buttons to select the **Disc Navigation**, and then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select the **DivX**, and then press the **ENTER** or ► button.

4. Press the ▲▼ buttons to select the avi file (DivX), then press the **ENTER**, ► or **PLAY** button.

5. When an MPEG4 file is played, you can use following functions. Pressing the **STOP** button once during playback will display the file list, pressing the button again will exit the menu screen.

◆ **MPEG4 Function Description**

Function	Description
Skip Scene	During playback, press the **SKIP** (or) button, it moves forward or backward 5 minutes.
Search Scene	During playback, press the **SEARCH** (or) button and press again to search at a faster speed. (Fast 1 → Fast 2 → Fast 3)
Slow Motion	In Still or step mode, press the **SEARCH** ( ) button on the remote control. (Slow 1 → Slow 2 → Slow 3)
Step Motion	In the still or play mode, press the **F.ADV/SKIP** button on the remote control.

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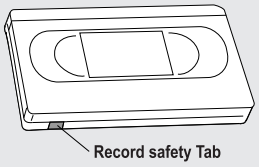
- This DVD Recorder & VCR can play the following video compression formats.
  - MPEG4 Codec format : DivX 3.11 DivX 4.x DivX 5.x
  - Audio format : .MP3, .MPEG, .PCM, .AC3, .DTS.
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt (The subtitle file should have exactly the same name to corresponding MPEG4 file name)
- Some MPEG4 files that were created on a personal computer may not be able to play back. That is why Codec Type, Version and Higher resolution over specification is not supported.



Playing the VCR

1. Insert a standard VHS tape into the VCR deck.
   • When a tape is inserted, the power will turn on automatically.
2. Press the ▶II (**PLAY/STILL**) button on the remote control or on the front panel of the unit. The videotape will begin to play automatically if the Record Safety Tab is removed and Auto Play is turned on.
3. Press the ■ (**STOP**) button on the remote control or on the front panel of the unit.
4. Playback through the VCR is possible when HDMI is connected.

Tracking

The Tracking adjustment removes the white lines that sometimes appear during playback because of slight differences in recording decks.

Adjust Tracking Manually During playback, press the **TRK/CBC CH/TV CH** (∧/∨) buttons to remove white lines from the picture.

Special VCR Playback Features

While a videotape is playing, you can enjoy a variety of special playback features, including Still, Frame Advance, Skip, Slow motion, and more.

STILL

In Play mode, press the ▶II (**PLAY/STILL**) button to still a single frame.

Frame Advance

In Still mode, press the **F.ADV/SKIP** button to advance to the next frame.

Fps/Review

In Play mode, press the Forward (▶▶) button or Rewind (◀◀) button to Fps/review at two speeds:
• Picture Search - Press and release repeatedly to advance the tape forward or backward at 2,3,5,7 times normal speed.
• Jet Search - Press and hold to advance the tape forward or backward at 7 times normal speed.

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Skip

In Play mode, press **F.ADV/SKIP** button to cue ahead exactly 30 seconds. Press **F.ADV/SKIP** button repeatedly up to 4 times to cue ahead 2 minutes.

Slow motion

In Still mode, press ▶▶ button for slow motion. Press the ▶▶ button repeatedly to play slow motion speed at 1/10, 1/7, 1/5 times. Press the **PLAY** button twice to resume normal viewing.

S-VHS Playback

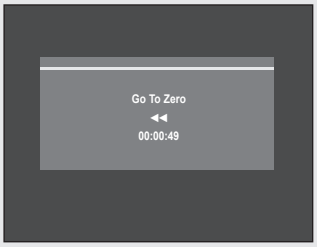
The DVD Recorder & VCR allows you to playback high quality S-VHS tapes.

1. Insert an S-VHS tape into the VCR deck.
2. Press **▶II (PLAY/STILL)** button on the remote control or on the front panel to play an S-VHS tape.

Variable Search System

Each time you record a cassette on this DVD Recorder & VCR, an "index" is automatically marked on the tape when recording is started. The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows

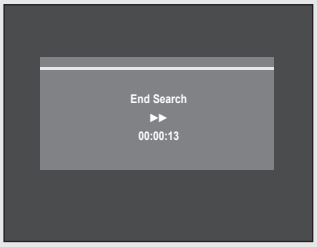
- This DVD Recorder & VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.



Go To Zero

Use this feature when you want to search for the 0:00:00 counter position on a cassette.

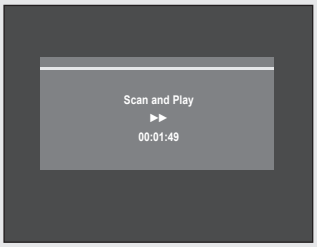
1. During playback, press the **CANCEL** button at the point on the tape where you want to set the counter to 0:00:00.
2. While a cassette is stopped, press the **ANYKEY** button.
3. Press the ▲▼ buttons to select **Go To Zero**, then press the **ENTER** button. The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.



End Search

Use this feature when you want to search for a blank position to record a program on a cassette.

1. While a cassette is stopped, press the **ANYKEY** button.
2. Press the ▲▼ buttons to select **End Search**, then press the **ENTER** button. The VCR will fast forward, searching for a blank position, and then automatically stop at that position. If the VCR reaches the end of the tape during end search, the tape will be ejected.



Forward/Reverse Intro Scan

Use scan and play when you don't know exactly where a program is located on a cassette tape.

1. While a cassette is stopped, press the **ANYKEY** button.
2. Press the ▲▼ buttons to select **Forward Intro Scan** or **Reverse Intro Scan**, then press the **ENTER** button. When an Index mark is found, the DVD Recorder & VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.

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Recording

This section explains various DVD recording methods.

This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

Recordable discs

This recorder can record on the following discs.

DVD-RAM	DVD-RW	DVD-R	DVD+RW	DVD+R

• DVD±RWs and DVD-RAMs are rewritable.
• DVD±Rs are non-rewritable.

Compatibility between Samsung and other manufacturer's Recorders.

Disc Types	Recording format	Recording Device	Finalizing	Additional Recording in Samsung Recorder
DVD-RAM	VR Mode	Samsung	X	Recordable
		Other Company	X	Recordable
DVD-RW	VR Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Recordable
	V Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable
DVD-R	V Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable
DVD+RW	-	Samsung	X	Not recordable in some cases
		Other Company	X	Not recordable in some cases
DVD+R	-	Samsung	finalized	Not recordable
			not finalized	Not recordable in some cases
		Other Company	finalized	Not recordable
			not finalized	Not recordable in some cases

■ Finalize
- This closes the DVD-RW/±R so no additional recording can be done.

■ Unfinalize
- This allows additional recording on a DVD-RW disc originally recorded on the DVD-VR357.
- A DVD-RW disc that has been recorded by DAO(Disc At Once) in a PC cannot be unfinalized.
- A DVD-RW disc that has been recorded in Video Mode of a different manufacturer's recorder cannot be unfinalized.
- A DVD±R disc cannot be unfinalized.

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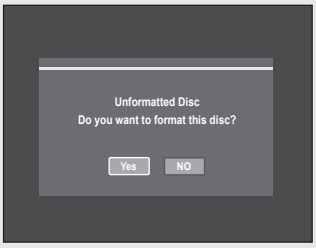
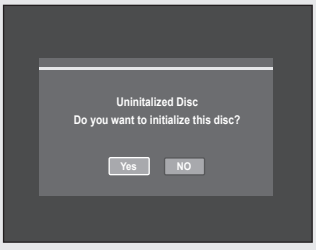
DVD-RAM



DVD±RW/+R



Recording Formats

Since available functions differ depending on the disc type, select a disc that best fits your preference. When you insert an unused disc, the following message appears.

- DVD-RAM : Use after formatting the disc.
- DVD±RW/+R : Use after initializing the disc.
  When using a DVD-RW disc, you can change the V or VR mode.
  Refer to Formatting a Disc on page 75.
- DVD-R : Initializing the disc is unnecessary.

DVD-RAM/-RW(VR mode)

- This mode involves multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
- Various editing options using a created Playlist.

DVD-RW(Video mode)/-R

- Chapters will be created automatically when you finalize recording on DVD-R/DVD-RW discs in Video mode.
- Simple editing (erasing titles/changing title name).

DVD+RW

- You can also make your own chapters on DVD+RWs and edit them using the Chapter Edit menu. (see pages 68~69)

■ You can initialize discs automatically using EZ REC MODE. (See page 59)

Recording Mode

With the unit in Stop mode, select one of four recording modes by pressing the REC SPEED button repeatedly for the desired recording time and picture quality.
In general, picture quality improves as the recording time decreases. In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. You can select only one mode from XP, SP, LP and EP for timer recording.

Mode	Characteristic	Recording Times Data Rates
XP (high quality mode)	Select when the video quality is important.	Approx. 1 hour about 8 Mbps
SP (standard quality mode)	Select to record in standard quality.	Approx. 2 hours about 4 Mbps
LP (long recording mode)	Select when a long recording time is required.	Approx. 4 hours about 2 Mbps
EP (extended mode)	Select when a long recording time is required.	Approx. 6 hours/ about 1.2 Mbps Approx. 8 hours/ about 0.8 Mbps
AUTO	For timer recording only see pages 57~58.	Approx 1 to 8 hours Approx 0.8 to 8Mbps

- The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs. (See page 36.)

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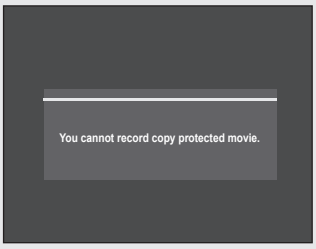

Unrecordable Video

Pictures with copy protection cannot be recorded on this DVD Recorder & VCR.
When the DVD Recorder & VCR receives a copy guard signal while recording, recording stops and the following message (to the left) appears on the screen.

Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never.
If you want to record a copy-once type program, use a DVD-RW with CPRM in VR Mode or DVD-RAM discs.
('O' : Supported, '-' : Not Supported)

	Copy-Free	Copy-Once	Copy-Never
DVD-RW (Ver.1.1)	O	-	-
DVD-RW (Ver.1.1) with CPRM VR mode	O	O*	-
DVD-R	O	-	-
DVD-RAM (Ver.2.0)	O	O*	-
DVD+R	O	-	-
DVD+RW	O	-	-

Once “Copy Once” has been recorded, additional recordings cannot be performed.
* compatible with CPRM.

◆ **Content Protection for Recordable Media (CPRM)**
CPRM is a mechanism that ties a recording to the media on which it is recorded. It is supported by some DVD Recorder & VCR, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA(Burst Cutting Area). When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID. During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

Recording from External Equipment you are Watching

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Before you start

1. Check the remaining time on the disc.
DVD-RAM/DVD±RW/+R discs should be formatted or initialized in advance before beginning recording. (See page 52.)
2. Press the **OPEN/CLOSE** button to close the disc tray.
Wait until “LOAD” disappears from the front panel display.

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1. Power on your DVD Recorder & VCR and switch to AV In mode by pressing the **INPUT SEL.** button on the remote control.
   The front panel display changes in the following sequence depending on the Video input setting in the menu.
   AV1: ┌→ AV1 → AV2 → DV ┐
   S-Video: ┌→ S-Video → AV2 → DV ┐
2. Press the **DVD** or **VCR** button on the remote, or **DVD/VCR** on the front panel to select the DVD or VCR mode.
3. Press the **REC SPEED** button repeatedly to select the recording speed(quality).
   DVD: ┌→ SP → LP → EP → XP ┐
   VCR: ┌→ SP → SLP ┐
4. When your DVD Recorder & VCR is in Stop mode, start playback on your external device.
5. Press the **REC** button on your DVD Recorder & VCR to start recording, when the desired video is displayed from the external device.

Pausing / Resuming

- Press the **PLAY/STILL**(⏯) button to pause a recording in progress.
- Press the **PLAY/STILL**(⏯) button again during pause to resume recording.

To stop recording

Press the **STOP** (■) button to stop or finish the recording in progress.

- When using DVD-RAM/DVD±RW/ DVD±R discs, the message 'Updating the information of disc. Please wait for a moment.' is displayed.

- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc, and up to 48 titles onto a DVD+RW/+R disc.
- If the power is interrupted due to power failure or other reasons, the title being recorded will not be saved onto the disc.
- Recording will stop automatically if a copy protected image is selected.
- Do not use DVD-R authoring discs with this unit.
- Also refer to the user manual for your External Devices when recording through AV In jacks on the DVD/VCR using Audio/Video cable.
- You can also record an external source through S-Video cable. (see page 24).
- For more information on changing the Video Input from AV1 to S-Video, see page 33 (Video Input).

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Recording Through the DV Input Jack

You may control your Camcorder using the IEEE1394 (DV) interface. Follow these directions to record onto a disc or tape from a camcorder that has a DV output jack.

1. Connect the DV output jack of your camcorder to the DV input jack on the front of your DVD Recorder & VCR using a DV cable.
2. Power on your DVD Recorder & VCR and switch to DV mode by pressing the **INPUT SEL.** on the remote control.
3. Press the DVD or VCR button on the remote, or DVD/VCR on the front panel to select the DVD or VCR mode.
4. Press the **REC SPEED** button repeatedly to select the recording speed(quality).
   DVD: → SP → LP → EP → XP →
   VCR: → SP → SLP →
5. If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.
6. Select the Play icon on the upper part of the screen to playback the camcorder and find the starting position to copy.
7. To start recording, Press the ◄► button to select the Rec(●) icon in the top side of the screen, then press the **ENTER** button.
   You can press the **REC** button on the remote control to start recording.
   To display playback related icons on the screen.
8. Press the **STOP** button on your DVD Recorder & VCR when the recording is finished.

- Some camcorders may not work with your DVD Recorder & VCR even if they have a DV output jack.
- Also refer to the user manual for your camcorder when recording through the DV jack.

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Making a One Touch Recording (OTR)

One-Touch Recording (OTR) allows you to add recording time in preset increments up to 4 hours by pressing the REC button repeatedly.

1. If you want to record through a connected external component, press the **INPUT SEL.** button to select an appropriate external input (AV1, AV2 or DV).

2. Press the DVD or VCR button on the remote, or DVD/VCR on the front panel to select the DVD or VCR mode.

3. Press the **REC** button to start recording.

4. While in Record mode, press the **REC** button again to activate the One-Touch Recording (OTR).
- Record length 0:30 appears on the On-Screen Display and the DVD Recorder & VCR will record for exactly 30 minutes.

5. Continue pressing **REC** button to add recording time in preset increments up to 4hours.

→ 0:30 → 1:00 → 1:30 → 2:00 → 3:00 → 4:00 → Off →

- The DVD Recorder & VCR stops recording automatically when the time has elapsed.

To stop recording

1. Press the **STOP** (■) button.
The message “Press STOP button once more to cancel Timer Record.” is displayed.

2. Press the **STOP** (■) button again.
The message “Updating the Information of disc.
Please wait for a moment.” is displayed.

■ The timer counter decreases by the minute from 4:00 to 0:00, then the DVD Recorder & VCR stops recording.

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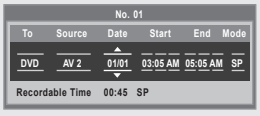

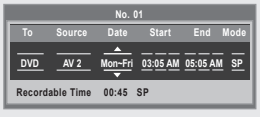

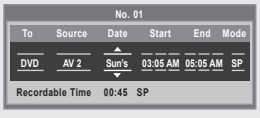

Making a Timer Recording

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

The clock (Setup – Clock Set) must be set before proceeding with a timer recording. (See page 26)

1. Press the **OPEN/CLOSE** button, and place a recordable disc on the disc tray(or load a tape into the VCR).
2. Press the **OPEN/CLOSE** button to close the disc tray.
   Wait until "LOAD" disappears from the front panel display.
3. With the unit in Stop mode, press the **MENU** button.
4. Press the ▲▼ buttons to select **Timer Rec.**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **Timer Record**, then press the **ENTER** or ► button.
   You can go to the Timer recording screen directly by pressing the **TIMER REC** button.
   The Timer Recording screen is displayed.
6. Fill in the items using the ▲▼◄ ► buttons.
   ◄► : Moves to the previous/next item,
   ▲▼or 0~9 : To set or change items in the Scheduled Record List Menu.
   - **To** : Select the media to record (DVD or VCR).
   - **Source** : The video input source (AV1 or AV2).
   - **Date** : Date that the timer recording starts
     - There are three options when setting the date. see below:

   ① To make a recording on a specific date, press the ▲▼ or number buttons until the date you want appears.

   ② To make a recording at the same time every day (Mon-Fri), press the ▲▼ buttons until Mon-Fri appears:

   ③ To make a recording on a specific day of the week(Sun's-Sat's), press the ▲▼ buttons until Sun's….Sat's appears:

   - **Start/End Time**: Start and end time of the timer recording.

◆ **Recording mode (DVD)**

AUTO : Select when you want the video quality adjusted automatically. In AUTO mode, the most suitable record mode is chosen according to the remaining time on the disc and length of the timer recording. You can select only one mode from XP, SP, LP and EP for timer recording.

XP (high quality) : Select when audio and video qualities are important. (Approx. 1 hour)

SP (standard quality) : Select to record in standard quality. (Approx. 2 hours)

LP (low quality) : Select when a long recording time is required. (Approx. 4 hours)

EP (extended mode) : Select when a longer recording time is required. (Approx.6 hours at 1.2 Mbps or Approx.8 hours at 0.8 Mbps)

■ When you are recording in EP mode on a DVD-RW(V)/-R disc, it may not record for the full 6 or 8 hours because the unit uses the VBR(Variable Bit Rate) ENCODING system.
For example, if you record a program with a lot of action, it uses a higher bit rate which in turn consumes more disc memory.

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◆ **Recording mode (VCR)**

AUTO : Select when you want to set video quality automatically. The auto quality depends on remaining time of VCR tape.

SP : Standard Play, for best picture quality.

SLP : Super Long Play, for maximum recording time (3 times SP).

7. Press the **ENTER** button.
- ◴ will appear on the front panel. It means that a timer recording is registered.

If the timer settings overlap
The first program has priority. After recording of the first program is complete, the second program starts being recorded.

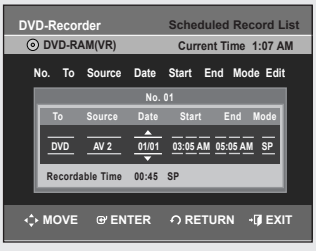
8. Turn the power off to finish the timer recording.
- ◴ will blink if a disc or tape is not inserted.

■ When the scheduled recording is operating, the program being recorded will not display on the TV.

■ The timer recording time may differ from the set time depending on disc status and overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 3 minutes before the start time of the next recording.)

Editing the Scheduled Record List

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R


DVD-Recorder
Scheduled Record List
DVD-RAM(VR)
Current Time 1:07 AM
No. To Source Date Start End Mode Edit
No. 01
To Source Date Start End Mode
DVD AV 2 01/01 03:05 AM 05:05 AM SP
Recordable Time 00:45 SP
MOVE ENTER RETURN EXIT

Follow these directions to edit the timer record list.

1. Press the **MENU** button.

2. Press the ▲▼ button to select **Timer Rec.**, then press the **ENTER** or ► button.

3. Press the ▲▼ button to select **Scheduled Record List**, then press the **ENTER** or ► button.

4. Press the ▲▼ button to select the number of the scheduled record list you want to edit, then press the **ENTER** or ► button.
- The Edit and Delete items are displayed.

5. Press the ▲▼ button to select **Edit**, then press the **ENTER** button.
- The Timer Recording screen is displayed. Edit the items you want to modify. See the Timer Recording section for more information on Timer Recording Input items. (See pages 57~58)

6. Press the **ENTER** button to confirm the edited setting.

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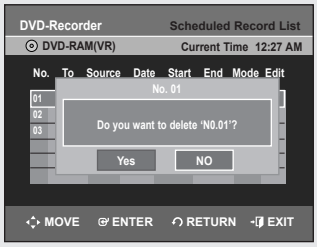
Deleting the Scheduled Record List

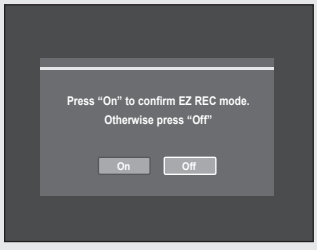


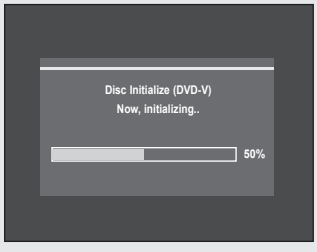
Follow these directions to delete a title from the timer record list.

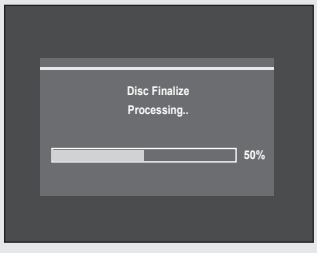
1. Press the **MENU** button.
2. Press the ▲▼ button to select **Timer Rec.**, then press the **ENTER** or ► button.
3. Press the ▲▼ button to select **Scheduled Record List**, then press the **ENTER** or ► button.
4. Press the ▲▼ button to select the number of the scheduled record list you want to delete, and then press the **ENTER** button.
   • The Edit and Delete items are displayed.
5. Press the ▲▼ button to select **Delete**, then press the **ENTER** or ► button.
   • You will be prompted with a delete confirm message such as “Do you want to delete ‘No.01’?”.
6. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   • The selected title will be deleted from the list.

■ You can not delete programs that are currently being recorded.

EZ REC MODE







This function allows you Initialize and Finalize a disc automatically.

1. With the unit in Stop/No Disc mode, press the **EZ REC MODE** button on the remote control.
2. Press the ◄ ► buttons to select **On**, and then press the **ENTER** button.
   The EZ REC MODE is set up.
3. Insert a disc.
   If the disc is new, it will initialize automatically.
4. Press the **REC** button.
5. EZ REC MODE will Automatically Finalize the disc under the following conditions.

- When you press the **OPEN/CLOSE** button on your DVD Recorder & VCR after recording on at least 30% of the disc. The tray will open after the disc has been finalized.
- When the disc is full, it will finalize automatically and the Recorder will remain in stop mode.
- When you make a timer recording and it occupies at least 30% of the disc, the disc will finalize automatically and the Recorder will power off. Please note that auto finalization will not work if the Recorder has more than one Timer Recording set in the Scheduled Record List.

■ If you insert a new DVD-RW disc, it will be formatted in V mode after auto initializing.
■ If you select off, you must initialize (see page 52) and finalize the disc manually in the Disc Manager menu.(see page 76)
■ The length of Recording is different according to recording mode. (see page 52)

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Basic VCR Recording

Before starting
Check the remaining time on the tape.

You can record a TV show in progress by inserting a blank tape and pressing the ●(REC) button. You can even add time in preset increments up to 4 hours by pressing the ●(REC) button repeatedly.

■ Be sure your videotape has a Record Safety Tab. If the tab is missing, you can cover the opening with a small piece of tape.

■ Warning: Do not cover this opening unless you are sure you want to record over the tape.

1. Insert a blank VHS tape into the VCR deck.
• Make sure the tape is long enough to record the entire program.

2. Press the **INPUT SEL.** button to select AV 1, AV 2 or DV if recording from an external device connected to the input jacks of the recorder.

3. Press the **REC SPEED** button on the remote control to set the Record Speed to one of the following options:
• SP – Standard Play, for best picture quality.
• SLP – Super Long Play, for maximum recording time (3 times SP).

■ The selected Record Speed will appear on the front panel and have on-screen displays.

Maximum Recording Time - SP vs. SLP

Tape Length	SP (Standard Play)	SLP (Super Long Play)
T-120	Approx. 2 hrs	Approx. 6 hrs
T-160	Approx. 2hrs 40 mins	Approx. 8 hrs
T-180	Approx. 3 hrs	Approx.9 hrs

■ When you watch or record on the VCR during DVD Recording, some function buttons may not operate.
The message “This function is not available.” will be displayed.

4. Press the ●(REC) button on the remote control or front panel.
For options while recording is in progress, see “Special Recording Features”.

5. Press the **STOP** button to stop or finish a recording in progress.

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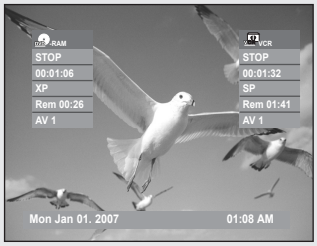

Check Remaining Time

1. Press the **INFO** button on the remote control.
The following information will be displayed.
(Current deck status, recording speed, remaining time, input channel, current time.)

Special Recording Features

While a recording is in progress, you can watch a DVD or VCR. (for example, you can watch VCR playback while recording from a DVD and vice-versa)

1. Watch a different media during recording
You can watch a DVD during VCR recording or watch a Video tape during DVD recording.
- During VCR recording, insert a DVD in the DVD deck. The output will automatically change to the DVD and start playback.
- During DVD recording, insert a Video tape in the VCR deck. The output will automatically change to the VCR and start playback. (Only if the tape is missing the safety tab)

2. To Add Recording Time
Refer to the One-Touch Recording (OTR). (See page 56)

3. Recording on the DVD and VCR at the same time
You can record on the DVD and VCR at the same time, but both modes must be set up to record separately.
- Press the **DVD/VCR** button to set the unit to DVD or VCR mode.
- Choose AV input mode (AV1, AV2 or DV). for DVD or VCR.
- Choose REC mode for DVD or VCR.
- Press **REC** button for DVD or VCR.

- When the DVD Recorder & VCR is connected to your TV using an S-Video or component video cable, the video tape's playback screen will not be displayed during DVD recording.
- You cannot record different channels at the same time.
- The DVD and VCR cannot start recording at the exact same time. You must set one mode to start recording, then the other.

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Copy to DVD or VCR

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R MPEG4

You can copy from the DVD to VCR or VCR to DVD.
Check the remaining time on the tape and Disc.

To Copy from DVD to VCR

DVD-RAM DVD-RW
(V mode)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Copy,** then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **DVD --> VCR**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Edit Copylist**, then press the **ENTER** or ► button.
   To copy from "Edit Copylist", you need to make a copylist in advance. Select "New Copylist" at step 4 and create the new copylist.
   If you want to copy directly, choose "Direct Copy".
   On a DVD-RW(V)/DVD+RW/±R disc, you can only use Direct copy function.
5. Press the ▲▼ buttons to select the desired copylist, then press the **ENTER** or ► button.
6. Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ► button.

Direct Copy: DVD to VCR

- Insert a DVD disc you want to copy.
- Insert a VHS tape.
- Press the VCR copy button on front panel or remote control (TO VCR).
- To stop recording, press the **STOP** button.
- You can also copy from DivX to VCR when the desired DivX is played back. If the DivX disc has various files, only the selected file will be played back

■ The copy function is not allowed in progressive scan mode.

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To Copy from VCR to DVD

1. With the unit in Stop mode, press the **MENU** button in stop mode.
2. Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **VCR --> DVD**, then press the **ENTER** or ► button.
4. You can use the ►II, I◄◄ or ►►I, ◄◄ or ►► buttons to search for the Start position.
   Press the **ENTER** button at the start point.
5. You can use the ►II, I◄◄ or ►►I, ◄◄ or ►► buttons to search for the end position.
   Press the **ENTER** button at the end point.
   • A copylist will be generated. Repeat the above steps to create the copylist.
   • In VCR mode, the copylist cannot be saved.
6. Press the ▲▼ buttons to select desired copylist, then press the **ENTER** or ► button.
7. Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ► button.
   • The VCR will fast forward, searching for a start position and then automatically start a copy.
   • The Start and End points may not match up exactly.
   • If you want to copy all content, select **Copy All**.

Direct Copy: VCR to DVD

• Insert the VHS tape you want to copy.
• Insert a recordable DVD disc.
• Press DVD copy button on front panel or remote control(TO DVD).
• To stop recording press the **STOP** button.

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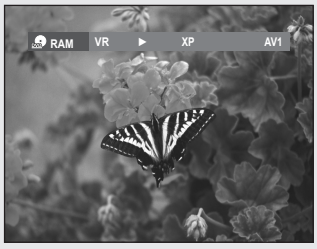
Editing

This section introduces basic functions of DVD editing and explains both, edit functions for recording on a disc and edit functions for the entire disc.



Playing the Title List

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

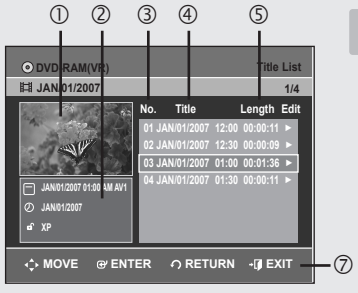
Follow these instructions to play back a scene from the Title List.

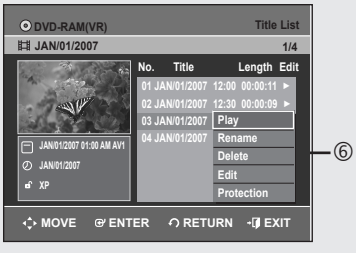
1. Press the **TITLE LIST** button. The Title List screen is displayed.

2. Press the ▲▼ buttons to select a Title, then press the **ENTER** or ► button.
The Edit menu is displayed:Play, Rename, Delete, Edit, Protection
(See pages 65~69)

3. Press the ▲▼ buttons to select **Play** to play the title list, then press the **ENTER** button.
The selected title will be played back.

4. Press the **STOP** button to stop playing.
To return the title list screen, press the **TITLE LIST** button.





Title List Screen Elements

① Playback screen for recorded titles.
② Information window for the selected title: Title name, recording date, lock status, recording mode
③ Recorded title No.
④ Recorded title name
⑤ Recording Length (i.e., the playing time)
⑥ Edit menu
Play: Plays the selected title.
Rename: Changes the name of a selected title.
Delete: Deletes the selected title from the list.
Edit: Deletes a section of title.
Protection: Locks or unlocks the selected title.
⑦ Button display.

- By pressing the ANYKEY button, you can play the desired title. (see page 40)
- This may depend on the disc type.
- DVD-RW(V)/DVD+RW/±R discs have limited editing function.

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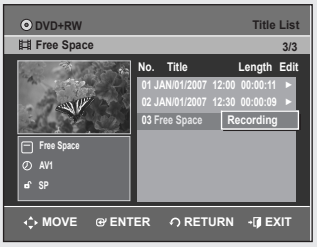
Recording on Free Space



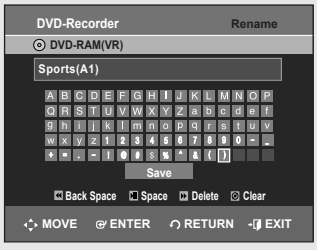
DVD+RW

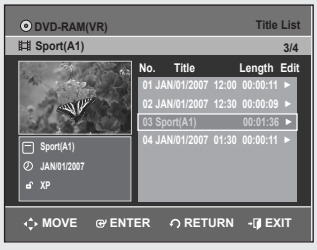
This function is only available with DVD+RW discs.
If existing titles are deleted, new free space will be created.
When you operate the free space function, on-air TV images will appear on the left side of the title list.

1. Press the **TITLE LIST** button while in Stop mode.
   The Title List screen is displayed.
2. Press the ▲▼ button to select **Free Space**, then press the **ENTER** or ►button.
   On-air TV images will appear on the left side of the title list.
3. Press the **ENTER** button.

Basic Editing (Title List)

Renaming(Labeling) a Title





DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Follow these instructions to rename a title list name, i.e., to edit the title of a recorded program.

1. Press the **TITLE LIST** button. The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to rename from the Title List, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Rename**, then press the **ENTER** or ► button. The Rename screen is displayed.
4. Select the desired characters using the ▲▼◄ ► buttons, press the **ENTER** button.
   - **Back Space** : Moves the cursor one position backwards.
   - **Space** : Enters a blank and moves the cursor one forward (to the right).
   - **Delete** : Deletes the character at the cursor position.
   - **Clear** : Deletes all the character inputs.
   - **Save** : Registers the character inputs.
5. Press the ▲▼◄► buttons to select Save, and then press the **ENTER** button.
   The changed title name is displayed in the title field of the selected title.

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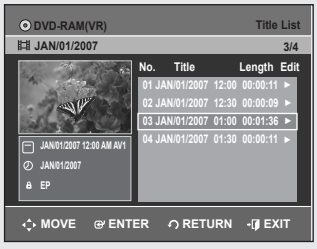
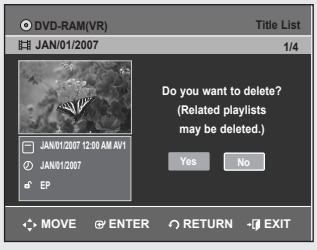


Locking(Protecting) a Title

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Follow these instructions to lock a title to protect it from accidental deletion.

1. Press the **TITLE LIST** button. The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to protect in the Title List, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Protection**, then press the **ENTER** or ► button.
4. Press the ◄► buttons to select **On**, then press the **ENTER** button. The lock icon on the information window for the selected title changes to the locked status. (🔓 → 🔒)



Deleting a Title

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Follow these instructions to delete a title from the Title List.

1. Press the **TITLE LIST** button. The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to delete in the Title List, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Delete**, then press the **ENTER** or ► button.
   You will be prompted with a confirmation message.
   DVD-RAM(VR), DVD-RW(VR mode) : Since a Playlist is present, the message 'Do you want to delete? (Related playlists may be deleted.)' is displayed.
   DVD-RW(Video mode),DVD+RW, DVD±R : Since a Playlist is not present, the message 'Do you want to delete?' is displayed.
   • The message may depend on the type of disc.
4. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.

- You cannot delete a protected title. If you want to delete a protected title, select **Off** in the Title Protection menu.
- Once a title is deleted from the Title List it cannot be recovered.
- Once a DVD±R, DVD-RW is finalized, it cannot be deleted.
- With DVD±R discs, titles are only deleted from the menu, however, the Title remains physically on the disc.

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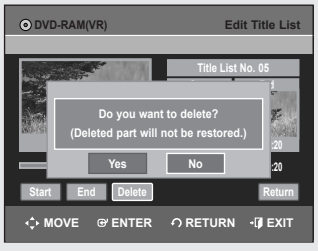
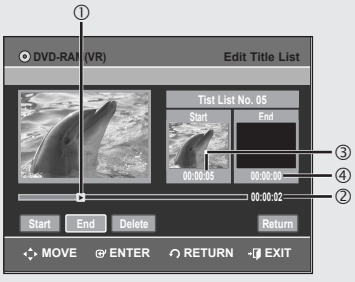
Deleting a Section of a Title

DVD-RAM DVD-RW

(VR mode)





Follow these instructions to delete a section of a Title List title.

1. Press the **TITLE LIST** button. The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to delete from the Title List, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Edit**, then press the **ENTER** or ► button. The Edit Title List screen is displayed.
4. Press the **ENTER** button at the starting point.
   The image and starting point time are displayed in the section deletion starting point window.
5. Press the **ENTER** button at the end point.
   The image and end point time are displayed in the Section deletion ending point window.
6. Press the ◄► buttons to select **Delete**, then press the **ENTER** button.
7. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   The selected section has been deleted.
   To return to the Title List screen, press the ◄► buttons to select Return.

◆ **Edit Title List Screen Elements**

1 Playback bar
2 Playtime
3 Section deletion starting point window and time
4 Section deletion end point window and time

- Select the start and end points of the section you want to delete using the playback related buttons.
- Playback related buttons: (►II, I◄◄, ◄◄, ►►).

- The length of the section to be deleted must be at least 5 seconds long.
- End point cannot be marked earlier than start point.
- The section cannot be deleted when it includes a still picture.

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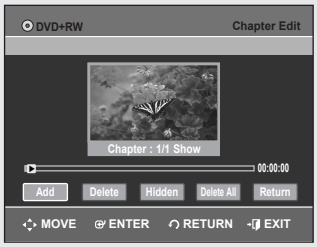


Editing a Chapter

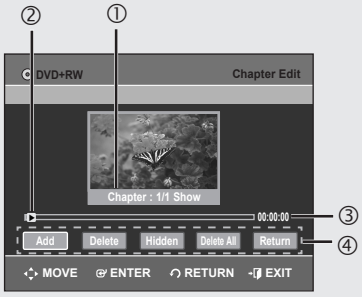
DVD+RW

You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.

1. Press the **TITLE LIST button**. The Title List screen is displayed.

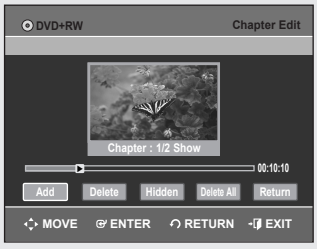
2. Press the ▲▼ buttons to select a title containing a chapter you want to edit, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **Chapter Edit**, then press the **ENTER** or ► button.
The Chapter Edit screen is displayed.



◆ **Chapter Edit Screen Elements**

1. Current chapter number and status
2. Playback bar
3. Playtime
4. Chapter Edit menu

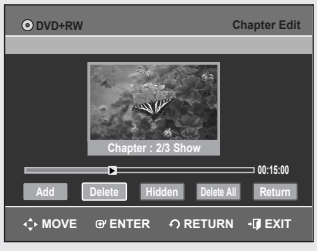


Adding a Chapter

4. Select the point where you want to add a chapter using the playback related buttons, then press the **ENTER** button at that point.
Each time you press the **ENTER** button, a new chapter will be added.
• Playback related buttons: (▶II,I◀◀,▶▶I,◀◀,▶▶).

5. Press the ◄► buttons to select Return, and then press the **ENTER** button.
The edited title will now have the chapter you added.

- You can make up to 99 chapters in a title and 254 chapters in a disc.
- The edited chapters are shown on existing DVD players only after performing the Edit Compatible function. (See page 77)
- If you add a chapter, the title is divided at that point; If you add a chapter onto a title that has only one chapter, it creates another chapter.



Deleting a Chapter

Follow steps 1 to 3

4. Select a chapter you want to delete using the playback related buttons.
• Playback related buttons: (▶II,I◀◀,▶▶I,◀◀,▶▶).

5. Press the ◄► buttons to select Delete, and then press the **ENTER** button.
The selected chapter will be deleted.
• To finish the operation, select **Return** using the ◄► buttons then press the **ENTER** button.

- The edited title has chapters as you deleted.
- The first chapter can't be deleted.
- The **Delete** menu is not available if there is one chapter in the selected title.
- When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.
- Deleting a chapter can't be canceled.

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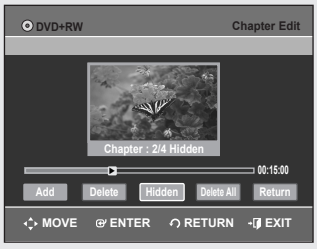


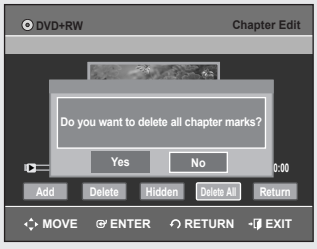
Hiding a Chapter

Follow steps 1 to 3 on page 68

4. Select a chapter you want to hide using the playback related buttons.
• Playback related buttons: (▶II,I◀◀,▶▶I, ◀◀, ▶▶).

5. Press the ◄► buttons to select Hidden, and then press the **ENTER** button.
The selected chapter is hidden.
• To finish the operation, select **Return** using the ◄► buttons then press the **ENTER** button.

- If there is only one chapter, it can't be hidden.
- **Hidden/Show** menu is not available if there is only one chapter in the selected title.
- The hidden chapters are not shown on the existing DVD players.
- **Hidden** chapters will be played when playing back the entire title. You can make the hidden chapter appear by pressing the **ENTER** button in the **Show** menu.



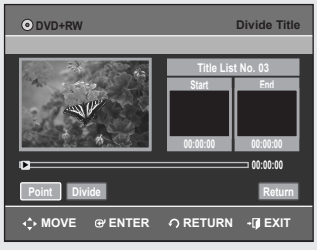
Deleting all Chapters

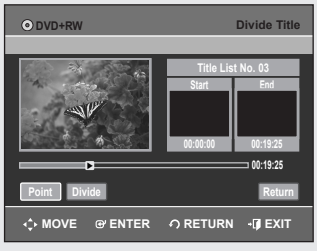
Follow steps 1 to 3 on page 68

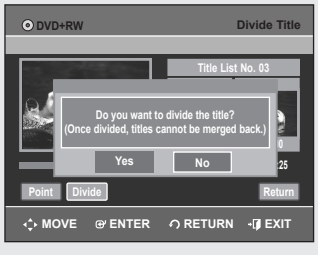
4. Press the ◄► buttons to select **Delete All**, and then press the **ENTER** button.

5. Press the ◄► buttons to select **Yes**, and then press the **ENTER** button.

- When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.
- The **Delete All** menu is not available if there is only one chapter in the selected title.







Dividing a Title

DVD+RW

Follow these instructions to divide a long title into several titles.

1. Press the **TITLE LIST** button. The Title List screen is displayed.

2. Press the ▲▼ buttons to select a title you want to divide from the Title List, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **Divide Title**, then press the **ENTER** or ► button.
The Divide Title List screen is displayed.

4. Select the point you want to divide using the playback related buttons, then press the **ENTER** button.
• Playback related buttons: (▶II,I◀◀, ◀◀, ▶▶).

5. Press the ◄► buttons to select **Divide**, then press the **ENTER** button.

6. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
The selected title has been divided into two titles.

- If the section to be divided is less than 5 seconds, you will be prompted with the message "The range is too short.".

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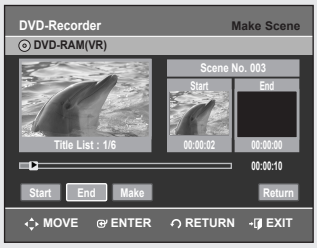
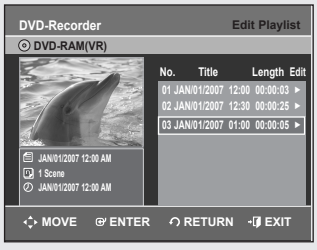
Advanced Editing (Playlist)





Creating a Playlist

(VR mode)

Follow these instructions to create a new playlist title from a recorded title.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **New Playlist**, then press the **ENTER** or ► button.
   The Make Scene screen is displayed.
4. Press the **ENTER** button at the start point.
   - The image and time at the start point are displayed on the Start window.
   - The yellow-colored selection bar moves to the End item.
   - Select the starting point of the section from which you want to create a new scene using the playback related buttons (▶II,I◀◀,▶▶I, ◀◀, ▶▶).
5. Press the **ENTER** button at the end point.
   - The image and end point time are displayed in the End window.
   - The yellow-colored selection bar moves to the Make icon.

- To make a new playlist -

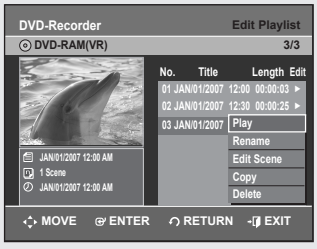
6. Press the ◄► buttons to select **Make**, then press the **ENTER** button.
   A new Scene will be added to the current Playlist.
   A new Make Scene screen is displayed.

- You can check and see all the scenes on the Edit Playlist screen.
- Repeat steps 1~6 if you want to make a new playlist.
- Repeat steps 4~6 if you want to add scenes to the playlist.

- To return to Edit Playlist menu -

7. Press the ▲▼ buttons to select **Return**, then press the **ENTER** button.
   The Edit Playlist screen is displayed.

- You can create up to 99 playlist titles.
- Depending on the kind of disc, the displayed screen may have a slight difference.
- A disc that is recorded on this unit will not display the playlist menu if EZ REC MODE is set to 'On'.



Playing Titles in the Playlist

(VR mode)

Follow these instructions to play the playlist titles.

1. Press the **PLAY LIST** button with the disc stopped.
   The Edit Playlist screen is displayed.
2. Press the ▲▼ buttons to select the title you want to play from the Playlist, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Play**, then press the **ENTER** or ► button.
   The playlist titles will be played back.
4. Press the **STOP** button to stop playing.
   The screen returns to the Edit Playlist screen.

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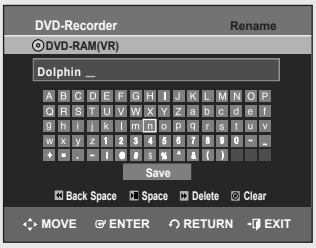
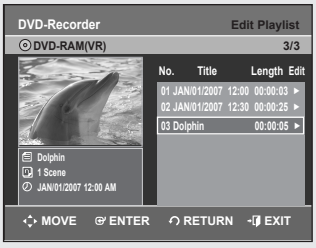




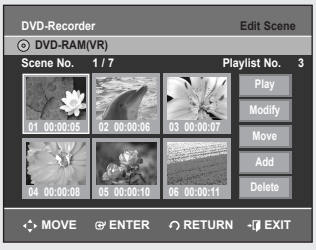
Renaming a Playlist Title

DVD-RAM DVD-RW

(VR mode)

Follow these instructions to rename a playlist title, i.e. to edit the title of a playlist title.

1. Press the **PLAY LIST** button with the disc stopped.
   The Edit Playlist screen is displayed.
2. Press the ▲▼ buttons to select the title you want to rename from the Playlist, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Rename**, then press the **ENTER** or ► button.
   The Rename screen is displayed.
4. Enter the desired characters using the ▲▼◄ ► buttons.
   - **Back Space** : Moves the cursor one position backwards.
   - **Space** : Enters a blank and moves the cursor one forward (to the right).
   - **Delete** : Deletes the character at the cursor position.
   - **Clear** : Deletes all the character inputs.
   - **Save** : Registers the character inputs.
5. Press the ▲▼◄ ► buttons to select **Save**, then press the **ENTER** button.
   The changed title is displayed in the title field of the selected title.



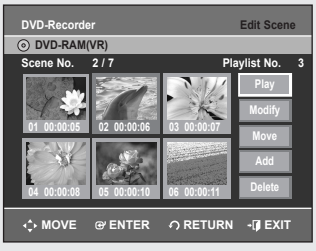
Editing a Scene for the Playlist

DVD-RAM DVD-RW

(VR mode)

Follow these instructions to edit scenes for a playlist.

1. Press the **PLAY LIST** button with the disc stopped.
   The Edit Playlist screen is displayed.
2. Press the ▲▼ buttons to select the title you want to edit from the Playlist, and then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Edit Scene**, then press the **ENTER** or ► button.
   The Edit Scene screen is displayed.



Playing a Selected Scene

4. Press the ▲▼◄ ► buttons to select the scene you want to play, then press the **ENTER** button.
   The playlist title to be played is selected.
5. Press the **ENTER** button.
   The selected scene will be played back.
   - To stop playback of a selected scene, press the **STOP** button.

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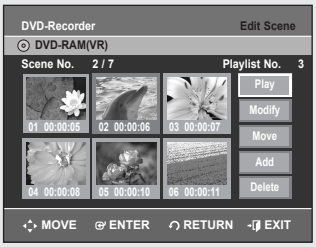
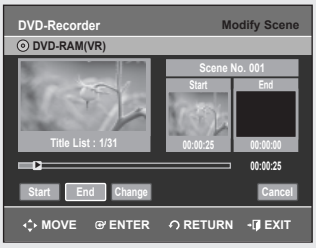
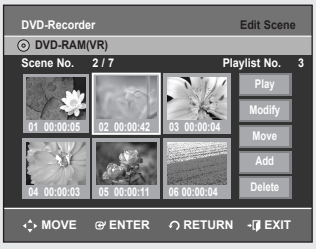






Modifying a Scene (Replacing a Scene)

Follow steps 1 to 3 on page 71.

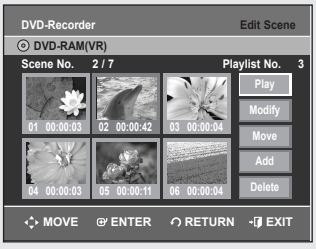
4. Press the ▲▼◄► buttons to select the scene you want to modify, then press the **ENTER** button.

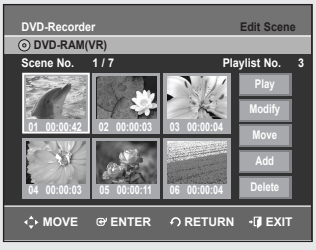
5. Press the ▲▼ buttons to select **Modify**, then press the **ENTER** button. The Modify Scene screen is displayed.

6. Press the **ENTER** button at the start point of the scene.
- The image and starting point time are displayed on the Start window.
- Select the starting or ending point of the section you want to modify using the playback related buttons (▶II,I◀◀,▶▶I, ◀◀, ▶▶).

7. Press the **ENTER** button at the end point of the scene.
- The image and ending point time are displayed in the End window.

8. Press the ◄► buttons to select **Change**, then press the **ENTER** button.
- The scene you want to modify is changed with the selected section.





Moving a Scene (Changing the Position of a Scene)

Follow steps 1 to 3 on page 71.

4. Press the ▲▼◄ ► buttons to select the scene you want to move (change the position), then press the **ENTER** button.

5. Press the ▲▼ buttons to select **Move**, then press the **ENTER** button.
- A yellow selection window is displayed on the scene to be moved.

6. Press the ▲▼◄ ► buttons to select the position to which you want to move the selected scene, then select the **ENTER** button.
- The selected scene is moved to the selected position.

■ Depending on the kind of disc, the displayed screen may be different.

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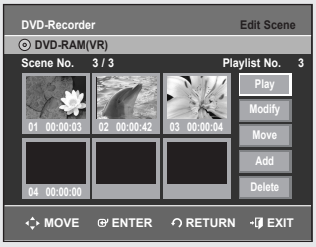
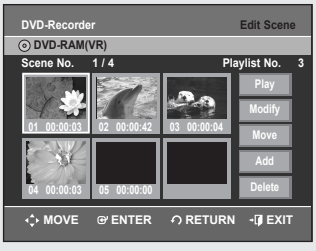




Adding a Scene

Follow steps 1 to 3 on page 71.

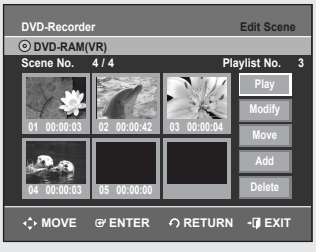
4. Press the ▲▼◄ ► buttons to select the scene that will have a new scene inserted before it, then press the **ENTER** button.
A yellow selection window is displayed on the scene to be added as the new scene.

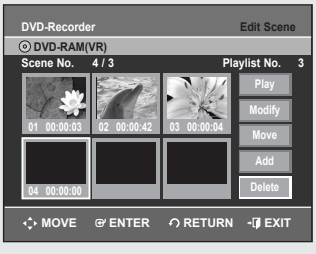
5. Press the ▲▼ buttons to select **Add**, then press the **ENTER** button.
The Add Scene screen is displayed.

6. Press the **ENTER** button at the starting point of the scene.
- The image and starting point time are displayed in the Start window.
- Select the end point of the section where you want to add the new scene using the playback related buttons (▶II,I◀◀,▶▶I, ◀◀, ▶▶).

7. Press the **ENTER** button at the end point of the scene.
- The image and time of the end point are displayed in the End window.
- To cancel, press the ◄► buttons to select cancel and then press the **ENTER** button.

8. Press the ▲▼ buttons to select **Add**, then press the **ENTER** button.
- The section you want to add is inserted prior to the scene selected in step 4.





Deleting a Scene

Follow steps 1 to 3 on page 71.

4. Press the ▲▼◄ ► buttons to select the scene you want to delete, and then press the **ENTER** button.

5. Press the ▲▼ buttons to select **Delete**, then press the **ENTER** button.

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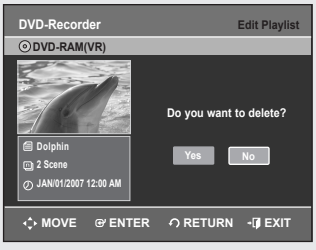
Copying a Playlist Title to the VCR

1. Press the **PLAY LIST** button with the disc stopped.
   The Edit Playlist screen is displayed.
2. Press the ▲▼ buttons to select the title you want to copy to the VCR, and then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Copy**, then press the **ENTER** button.
   • The title you choose is played and copied to VCR tape.
4. Press the **EXIT** button after the operation has finished. The menu screen will disappear.

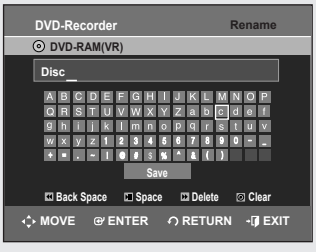
■ The playlist can contain up to 99 playlist titles.



Deleting a Playlist Title from the Playlist

1. Press the **PLAY LIST** button with the disc stopped.
   The Edit Playlist screen is displayed.
2. Press the ▲▼ buttons to select the title you want to delete from the Playlist, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Delete**, then press the **ENTER** button.
4. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   After the delete operation is complete, it will automatically return to the Edit Playlist screen.

Disc Manager



Editing the Disc Name

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Follow these instructions to give a name to a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Disc Name**, then press the **ENTER** or ► button.
   The Edit Name screen is displayed.
4. Enter the desired characters using the ▲▼◄ ► buttons.
   • **Back Space** : Moves the cursor one position backwards.
   • **Space** : Enters a blank and moves the cursor one forward (to the right).
   • **Delete** : Deletes the character at the cursor position.
   • **Clear** : Deletes all the character inputs.
   • **Save** : Registers the character inputs.
5. Press the ▲▼◄► buttons to select **Save**, then press the **ENTER** button.
   A disc name is given to the disc.

■ You may need to clear disc protection before editing.

■ Depending on the kind of disc, the displayed screen may be different.

Editing

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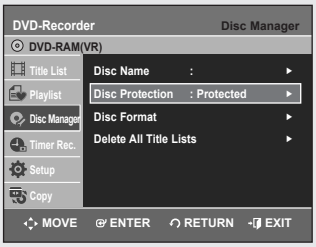

Disc Protection

DVD-RAM DVD-RW DVD-R

Disc Protect allows you to protect your discs from being formatted or deleted due to unintended operations.

1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **Disc Protection**, then press the **ENTER** or ► button.

4. Press the ▲▼ button to select **Protected**, then press the **ENTER** or ► button.

Formatting a Disc

DVD-RAM DVD-RW DVD+RW

Use these instructions to format a disc.
Disable disc protection before formatting.

1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **Disc Format**, then press the **ENTER** or ► button.

DVD-RAM/+RW

- You will be prompted with the confirmation message 'Do you want to format disc?'.
- You will be prompted with the confirmation message 'All data will be deleted. Do you want to continue?'.

DVD-RW

- You will be prompted with the confirmation message ‘Choose the recording format for DVD-RW.’
  You will be prompted with the confi rmation message 'All data will be deleted. Do you want to continue?'.

4. Press the ◄ ► buttons to select **Yes**, then press the **ENTER** button. The disc is formatted.

DVD-VR and DVD-V modes are compatible with the following disc types.

	DVD-VR	DVD-V
DISC	DVD-RAM DVD-RW	DVD-RW DVD-R

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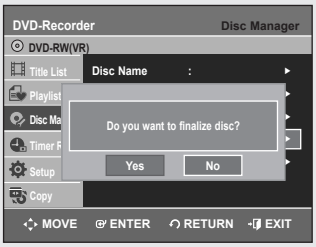


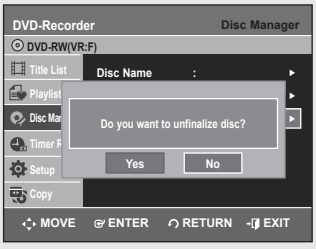
Finalizing a disc

DVD-RW DVD-R DVD+R

After you record titles onto a DVD-RW/DVD±R disc with your DVD Recorder & VCR, it needs to be finalized before it can be played back on external devices.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.
3. Press the ▲▼ button to select **Disc Finalize**, then press the **ENTER** or ► button.
   You will be prompted with the message 'Do you want to finalize disc?'.
4. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   You will be prompted again with the message “Disc will be finalized. Do you want to continue?”.
5. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   The disc is finalized.

- Once a disc is finalized, you cannot delete titles from the record list.
- Once a DVD±R/DVD-RW (video mode)disc is finalized, it is playable in a standard DVD player.
- Depending on the disc type, the displayed screen may be different.
- Finalizing time may be different depending on the amount of data recorded on the disc.
- Data on the disc will be damaged if the recorder is powered off during the finalization process.
- You can automatically finalize a disc using EZ REC MODE. (See page 59)



Unfinalizing a disc (V/VR mode)

DVD-RW

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.
3. Press the ▲▼ button to select **Disc Unfinalize**, then press the **ENTER** or ► button.
   You will be prompted with the message 'Do you want to unfinalize disc?'.
4. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   You will be prompted again with the message “Disc will be unfinalized. Do you want to continue?”.
5. Press the ◄► buttons to select **Yes**, then press the **ENTER** button.
   The disc is unfinalized.

- A DVD-RW can be finalized or unfinalized in Video mode.

	Finalize	Unfinalize
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

- A DVD-RW can be finalized or unfinalized in VR mode.

	Finalize	Unfinalize
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

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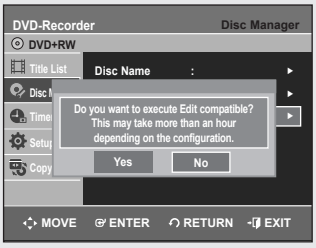
Delete All Title Lists

DVD-RAM DVD-RW DVD+R DVD+R

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.
3. Press the ▲▼ button to select **Delete All Title Lists**, then press the **ENTER** or ► button.
   - You will be prompted with the confirmation message 'Do you want to delete all title lists?'.
   - When Protected Title exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate.
     If you want to delete a protected title, disable Protect for it on the Lock item.
4. Press the ◄ ► buttons to select **Yes**, then press the **ENTER** button.
   All title lists are deleted.



Edit Compatible

DVD+RW

For DVD+RW discs, this function needs to be performed in order to view edited chapters or titles on a standard DVD player.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Edit Compatible**, then press the **ENTER** or ► button.
4. Press the ◄ ► buttons to select **Yes**, then press the **ENTER** button to execute the edit compatible.

   After performing this function, you can go to TITLE MENU screen directly by pressing the **TITLE MENU** button.

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Reference

Troubleshooting (DVD-VIDEO/DVD-RAM/DVD±RW/DVD±R)

If your product malfunctions, go through the check points below before contacting a Samsung authorized service center,

Problem	Explanation/Solution
No power.	• Check whether the power cord is securely plugged into the power outlet. • Did you press the power button of your DVD Recorder & VCR.
The input is displayed for a while when the power turns on.	• The DVD Recorder & VCR requires some time to initialize after it is turned on. If Quick recording function is set to on, the DVD Recorder & VCR will power on quickly, which enables you to immediately record a desired channel. (See page 35.)
Cannot record TV programs.	• Check whether the power cord is securely plugged into the power outlet. • Did you set the DVD Recorder & VCR channel settings correctly? • Check the free space on your DVD-RAM/DVD±RW/DVD±R disc. • Check if the antenna cable is connected properly.
Timer recording does not work properly.	• Check the recording time, end time and current time settings again. • Recording will be cancelled if the power is interrupted due to a power failure or other reason during recording.
Cannot record.	• Check whether the disc is formatted. This product can record on formatted discs only. (See pages 52, 75.) • Check whether your DVD-RAM/DVD±RW/DVD±R disc has a sufficient free space.
I pressed the REC button but there is no response.	• Recording is available on DVD-RAM/DVD±RW/DVD±R discs only. • If a program is copy protected, you cannot record it.
I forgot the parental control password.	• Press and hold the **SEARCH/SKIP** (◀◀/▶▶) button on the front panel of your unit for more than 5 seconds with no disc, and then press the **POWER OFF/ON** button. All settings including the password will revert to factory settings. Only do this if it is absolutely necessary. (Note that this function is available only when there is no disc inserted.)
Cannot play the disc.	• Check whether the disc is inserted correctly with the label facing up. • Check the regional code of your DVD disc. • This DVD Recorder & VCR cannot playback some types of disc. (See pages 5, 37.)
No sound.	• Are you watching a program in slow or skip mode? If you are playing a program at a speed other than normal speed, sound is not output. (Except for forward search Playback (Fast1)) • No sound will be heard when scanning an MPEG4 disc. • Check the connections and initial settings. • Check whether the disc is damaged. • Clean the disc, if necessary. • Check whether the disc is inserted correctly with the label facing up.

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Troubleshooting (DVD)

Problem	Explanation/Solution
⊘ icon appears on the screen.	You cannot use the operation or function due to one of the following reasons: (1) Your DVD disc does not support the feature (for example, angles) (2) You've requested a title, chapter, or scan time that is out of the correct range.
Play mode settings are different from the settings configured with the Setting menu.	The disc does not support all the selected functions. In this case, some settings you configure on the Setting menu may not work properly.
Cannot change the aspect ratio.	Aspect ratio is fixed on DVD disc.
No audio output.	Check whether you selected the correct digital output options in the Audio Output Options menu.
No video or audio output. The disc tray is ejected after 2 to 5 seconds.	Did you move your DVD Recorder & VCR suddenly from a cold place to a warm place? In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again. It will work properly when condensation has evaporated.
Angle operation does not work during playback of a DVD disc.	Angle operation is available only when the disc contains images captured at different angles.
The disc revolves, but no image or bad quality images are output.	• Check whether there is damage or foreign materials on your disc. • Some discs with bad manufacturing quality may not be played back. • If the scene changes from dark to bright suddenly, the screen may jitter temporarily, but it is not defective.
Desired sound language and subtitle language are not played.	Sound languages and subtitle languages are disc-specific. Only the sound and subtitle languages contained on a DVD disc are available and displayed on the disc menu.
No progressive output.	• Check whether PS◯ is displayed on front panel. • Make sure to change the component video output using the Progressive button when the disc is stopped.
The remote control doesn't work.	• Point the remote control at the remote control sensor on your DVD Recorder & VCR. Operate within distance. (15ft) Remove obstacles between your DVD Recorder & VCR and remote control. • Check whether the batteries are depleted.
Other problems	• Read the table of contents and then find and read the sections describing your problem, and follow the directions given. • Turn the unit off and on. • If your problem still persists, contact your nearest Samsung service center.
No HDMI output.	• Check that the Video output is HDMI enabled. • Check the connection between the TV and the HDMI jack of the DVD Recorder &VCR. • See if your TV supports this 480p/720p/1080i DVD Recorder &VCR.
Abnormal HDMI output screen.	• If snow noise appears on the screen,it means that the TV does not support HDCP (High-bandwidth Digital Content Protection).
HDMI output Jitter	• Check if your TV system is setup correctly. • Screen Jitter may occur when the frame rate is converted from 50Hz to 60Hz for 720p/1080i HDMI (High Definition Multimedia Interface)Output. • Please refer to the user 's manual of your TV.

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Troubleshooting (VCR)

Before contacting a Samsung authorized service center, perform the following simple checks.

Problem	Explanation/Solution
No power	• Check that the power plug is connected to a wall outlet. • Have you pressed the **POWER** button?
You cannot insert a video cassette	• A video cassette can only be inserted with the window side up and the safety tab facing you.
Timer recording was unsuccessful	• Re-check the recording start/stop time settings and the current time • Check whether you insert a tape which has enough time record
No playback picture or the picture is distorted	• Check to see if you are using a prerecorded tape.
When the ▶II button is pressed during playback, the still picture has severe “noise bar” streaks	• A still picture may have “noise bars”, depending on the condition of the tape. Press the **TRK/CBC CH/TV CH** (∧/∨) buttons during slow motion to minimize this effect.
Video Head Cleaning	• If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.

If you are unable to solve the problem after reading the above instructions, note:

- **The model and serial number on the rear of your DVD Recorder & VCR**
- **The warranty information**
- **A clear description of the problem**

Then contact your nearest SAMSUNG authorized service center.

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Cable Box/Satellite Receiver Brand Code Table

Cable box brand

Cable box brand	Code number
3M	0033
ABC	0003, 0011, 0017, 0008, 0014,
Accuphase	0007, 0001, 0013, 0206, 0047,
	0237, 0033
	0003, 0013, 0047, 0001, 0011,
Acorn	0017, 0014, 0206, 0007
	1102, 0237
Action	0237
Active	0237, 1102
Aim	0015
Allegro	0315, 0153
Amark	0008, 0277, 0144, 0056
American	0060
Americast	0899
Antronix	0207, 0022
Anvision	0211, 0111
Apache	0770
Arbatron	0014, 0011, 0003, 0476
Archer	0153, 0022, 0207, 0039, 0797,
ASE	0237, 0260
	1080
Auna	1269
BBT	0267
BCC	0276
Belcor	0056, 0022
Bell & Howell	0014
Bell Atlantic	0641
Bell South	0899
Bestlink	0303
Betavue	0022
British Telecom	0003
BVS	0641
Cable Healthcare	0769, 0058
Cable Star	0056
Cabletenna	0022, 0039
Cableview	0022
Century	0153, 0618, 0008, 0315
Citation	0017
Citizen	0153, 0315, 0078, 0242
Clearmaster	0883
ClearMax	0883, 1247
Colour Voice	0031, 0025
Comband	0233, 0232
Comtec	0274
Comtronics	0060, 0040
Comtronics Eagle	0040, 0060
Contec	0019
Coolmax	0883
Curtis Mathes	0015, 0242
Dae Ryung Eagle	0008
Dae Ryung	0008, 0877, 0477, 0277, 1877
Diamond	0035
Digeo	1476,1897
Digi	0637
Director	0476
Dumont	0637
Eagle Comtronics	0060, 0028

Cable box brand	Code number
Eastern	0002, 0274, 0418
Electricord	0078
Emerson	0797, 0303, 0015, 0014
Everquest	0040, 0015
Focus	0400
Fosgate	0276
Fujitsu	0246
Funai	0248, 0019
FutureVision	0649
Garrard	0153
Gateway	0764
GC Electronics	0207, 0056, 0330, 0016, 0040,
	0077, 0030
GE	0232, 0233, 0144, 0021
Gemini	0015, 0070, 0057, 0242, 0014,
	0797, 0013, 0400
General Instrument	0476,0011,0014,0098,0810,
	0024,0003,0015,0276,1376,1476
GHZ	0078
Gibraltar	0003
Global	1327
GMI	0069, 0057, 0015, 0797
Glodstar	0144, 0040
Goodmind	0770, 0797
Gradiente	1136
Hamlin	0020, 0009, 0034, 0259, 0015,
	0273, 0206
Healthway Interactive	0058, 1020, 1015, 0769
Hitachi	0011, 0154, 0009, 0008, 0003,
	0033, 0014, 0255
Houston Tracker	0011
Hwalin	0303
Hytex	0007
IBM	0670
IEEC	1018
Interbuy	0274
Jasco	0315, 0153, 0015
Jebsee	0014, 0400
Jerrold	0003, 0014, 0276, 0011, 0012,
	0020, 0024, 0015, 0047, 0098,
	0476, 0031, 0029,
	0111, 0032, 0054, 0810, 0028
Kuang Yu	0024
Leon	0069, 0015
LG	0040, 0144
Linsay	0440
Macom	0033
Maestro	0812
Magnavox	0797, 0027, 0032, 0334, 0069
Millennium	0618, 0153
Memorex	0000
Mitsubishi	0003
Motorola	0476, 0276, 1476, 0810, 1376,
	1254, 0400, 1106
Movie Time	0156, 0078, 0063, 0203
MS	0069, 0015, 1018, 0303
MultiVision	0012
Myrio	1117
NET	0274
Next Level	0764, 1316, 1315, 1314

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Cable box brand	Code number
Nexus	0770
Northcoast	0671, 0314
Nova Vision	0277, 0008
Novabeam	0277
Novaplex	0618, 0277, 0017, 0008
NSC	0156, 0070, 0203, 0063, 0400,
	0012, 0618, 0022, 0637, 0010,
	0044
Oak	0019, 0007, 0303, 0248, 0017
Omega	0015
Omniview	0371
Optimus	0021
Pace	0008,0237,0277,0477,0877,
	1877,0810,1376,1476
Pacific Bell	0843
Panasonic	0107, 0021, 0144, 0008, 0124,
	0307, 0000, 0040
Panther	0637
Paragon	0000, 0525, 0008
Penney	0637, 0000
Philips	0025, 0031, 0290, 0027, 0030,
	0153, 0060, 0242, 0028, 0334,
	0211, 0029, 0259,0307, 0652,
	0013, 0069, 0649, 0255, 0305,
	0032, 0111, 0317
Pioneer	0144, 0023, 0533, 1877, 0877,
	0260, 0008, 0277, 0477
Popular Mechanics	0400
Prelude	0770
Prism	0012, 0013, 0059
Protelcon	0786
Pulsar	0000, 0040
Quasar	0000
Quest	0144, 0020
R Line	0040
RadioShack	0883, 0015, 0315, 0303, 0797
Rampage	0255
Ranger	1247
RCA	0021, 0060, 0797,0047, 1256,
	0843
Realistic	0207, 0153
Recoton	0153, 0400
Regal	0259, 0020, 0273, 0279, 0276
Regency	0002, 0020, 0682
Rembrandt	0070, 0153, 0040, 0022, 0011
RK	0304, 0479
Runco	0000
Samsung	0040, 0144, 0023, 0003, 0070,
	0000, 1898
Sasktel	1737
Scientific Atlanta	0008, 0277, 0017, 0006, 0237,
	0025, 0477, 0207, 0877, 0003,
	0012, 0000, 0021, 1877
Seam	0510
Sears	0510
Sejin	1265
Siemens	0246
Sigma	0019
Signal	0040, 0015, 0011, 0035
Signature	0011
SkyCable	0112
Skygiant	1091
SL Marx	0040
Sony	1006, 1506, 1606
Spectradyne	0769, 0058
Spectravision	0058
Sprucer	0021, 0307, 0010, 0144

Cable box brand	Code number
Standard Components	0203, 0096, 0155
Starcom	0003, 0015, 0047, 0014, 0098,
	0305
Stargate	0015, 0040, 0770, 0865, 0797,
	0305, 0014
Starquest	0015
StarSight	0542, 0422
Stealth	0274
Stellar One	0807
Storm	1018, 0637
Suena Madritel	1230
Supercable	0276
Supermax	0883
Sylvania	0001
Tandy	0258
Tatung	0097
Teac	1018
Technics	0029
Teknika	0146
Teleavia	0040
TeleCaption	0221
Teleview	0063, 0040
Texscan	0001, 0096, 0010
TFC	0310
Thomson	1256
Timeless	0418, 0274, 0040
Tocom	0012, 0013, 0029, 0019, 0059,
	0017
Torx	0003
Toshiba	0000
Trans PX	0303, 0276, 0153, 0315
Trinity	1248
Tristar	0883
TS	0255, 0024, 1018, 0003, 0303
Tusa	Tusa
TV COMM	0035, 0019
TV Guide	1476
TV86	0063, 0040
Uniden	0225, 0022
Unika	0207, 0153, 0022
United Artists	0007
United Cable	0003, 0014, 0011, 0276
Universal	0191, 0078, 0207, 0056, 0022,
	0039, 0153, 0077, 0322, 0315
US Electronics	0276, 0008, 0003, 0017
V2	0883
Verizon	0246
Video way	0250, 0000
Video Works	0124
Vidtech	0244
Viewmaster	0883, 0770
Viewstar	0258, 0289, 0060, 0063, 0211,
	0618, 01530027, 0111, 0030, 0121
Vision	0883
Visionetics	1264
Vortex View	0883
WaveMaster	0565
Wiso	0078
Zenith	0000, 0525, 0054, 0017, 0039,
	0153, 0060, 0315, 0191, 0899
Zenitek	0400

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Satellite receiver brand

Satellite receiver brand	Code number
AlphaStar	0772
Atlantic Telephone	1333
Bell ExpressVu	0775
Century	0856
Chaparral	0216
Crossdigital	1109
DirecTV	1887, 0749, 0566, 0392, 1749,
	0099, 1109, 1076, 1442, 1856,
	0247, 1142, 1639, 0724, 0639,
Dish Network System	0775, 1005, 1170
Dishpro	0775, 1005
Echostar	0775, 1170, 1005
Expressvu	0775
Galaxis	0863
GE	0566
General Instrument	0361, 0869, 0627
GOI	0775
Gradiente	0856
Hitachi	0819, 0749
Houston Tracker	0775
HTS	0775
Hughes Network Systems	0749, 1749, 1442, 1142
Humax	1176, 1359, 1048, 0863, 0283
Innova	0099
Jerrold	0361, 0036, 0627
JVC	0775, 1170
Magnavox	0722, 0724
McIntosh	0869
Memorex	0724
Mitsubishi	0749
Motorola	0869
NEC	1270, 0496, 0499, 0507, 0508
Netsat	0099
Next Level	0869
Optimus	0724
Panasonic	0247, 0701
Paysat	0724
Philips	1076, 1142, 0724, 0722, 0749,
	1442, 1749, 0856, 0775, 0099
Primestar	0361, 0627, 0869
Proscan	0392, 0566
QNS	1367
RadioShack	0869
RadioShack	0566, 0392, 0143, 0855
Samsung	1109, 1276
Sky	0856, 0099, 1856
Sony	0639, 1639
Star Choice	0869
Star Trak	0869, 0772
Thomson	0566, 0392
Tivo	1142, 1442
Toshiba	0790, 0749, 1749, 1285
UEC	1333, 1358
Uniden	0724, 0722
Video Cipher II Plus	0361
Zenith	0856, 1856

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Problems and Solutions (Display error Message)

Before contacting a Samsung authorized service center, perform the following simple checks.

Problem	Explanation / Solution
You cannot record a copy protected movie.	• You can't record the video since it is protected by copyright.
You cannot record. This disc is protected.	• The disc you are using is protected. To record on this disc or use this function, cancel the disc protection function. Refer to page 75.
This disc cannot be formatted (the disc is protected).	
This disc cannot be renamed (the disc is protected).	
This disc cannot be finalized (the disc is protected).	
This [Menu] is not available (the disc is protected).	
The disc cannot be played, Please check the regional code of the disc.	• The disc does not match the regional code for your area and cannot be played on this device.
This disc cannot be formatted. Please check the disc.	• Make sure there are no scratches or dirt on the disc.
You could not format the disc because of error detection.	
You could not finalize the disc because of error detection.	
You could not unfinalize the disc because of error detection.	
The disc cannot be played, Please check the TV system.	• The disc is PAL format and cannot be played on this unit.
The disc can be neither played nor recorded.	• Make sure there are no scratches or dirt on the disc.
The disc cannot be played, Please check the disc.	
If the disc has invalid information, no more titles can be recorded. Please format the disc beforehand.	• You can't use the disc because it contains errors from previous recordings. Use the disc after formatting.

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Problems and Solutions (Display error Message)

Problem	Explanation / Solution
Error is detected on the disc.	• You can't use the disc because it contains errors from previous recordings. Use the disc after formatting.
System error is found. Please try it again after turning off the power.	• When operating, errors happen. Turn off the device. (To turn off, press and hold the power button on the front of the device for 10 seconds.) After turning off, press the Open button and remove the disc from the device.
The DV device is not connected.	• Make sure the DV device is connected properly to the DV connection Jack. If it is connected properly, turn it off and on once again.

If you are unable to solve the problem after reading the above instructions, note:

- The model and serial number on the rear of your DVD Recorder & VCR
- The warranty information
- A clear description of the problem

Then contact your nearest SAMSUNG authorized service center. Call 1-800-SAMSUNG for a center near you.

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Specifications

General	Power requirements	120V AC, 60Hz
	Power consumption	28 Watts
	Weight	8.75 lb
	Dimensions	16.9 in(W) x 10.6 in(D) x 3.1 in(H)
	Operating temp.	+41°F to +95°F
	Other conditions	Keep level when operating. Operate in less than 75% humidity
Input	Video	1.0 V p-p at 75Ω load, sync negative S-Video input (Y: 1.0Vp-p, C: 0.286Vp-p at 75Ω load)
	Max. Audio Input Level	2Vrms
	DV Input	IEEE 1394(4p) compatible jack
	Receivable Channels	Regular TV broadcasting: VHF (2~13), UHF (14~69) Cable TV broadcasting: 1~125
Output	Audio	Audio output jacks 1, 2 Optical/Coaxial digital audio output support Min. 100 dB signal-to-noise ratio Max. 0.005% total harmonic distortion (T.H.D) at average 1 KHz
	Video	Video output jacks S-Video output (Y:1.0Vp-p, C:0.286Vp-p at 75Ω load) Component output (Y: 1.0Vp-p, Pb: 0.70Vp-p, Pr: 0.70Vp-p at 75Ω load) HDMI output (480p, 720p, 1080i)
DVD	Picture Compression format	MPEG-II
	Audio Compression format	Dolby AC-3 256kbps
	Recording Quality	XP (about 8 Mbps), SP (about 4 Mbps), LP (about 2 Mbps), EP (about 1.2 Mbps)
	Video S/N Ratio	Min. 50dB at standard recording
	Audio S/N Ratio	Min. 75dB
	Audio frequency characteristics	20 Hz ~ 20 KHz

Audio Output

For DVD discs, audio signals recorded at 96kHz sampling frequency are converted into and output at 48kHz.

Disc Type	DVD	AUDIO CD(CD-DA)
Analog Audio Output	48 / 96kHz	44.1kHz
Digital Audio Output	48kHz	44.1kHz

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SAMSUNG DVD RECORDER & VCR

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts / Ninety (90) days Labor
(90 days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG' s authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

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To obtain warranty hardware service, please contact SAMSUNG at:

Samsung Electronics America, Inc.
105 Challenger Road Ridgefield Park, NJ 07660-0511
1-800-SAMSUNG (726-7864) and www.samsung.com

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Customer Care Center ☎	Web Site
North America	CANADA	1-800-SAMSUNG (7267864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG (7267864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG (7267864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421	www.samsung.com/br
	CHILE	800-726-7864(SAMSUNG)	www.samsung.com/cl
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
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	TRINIDAD & TOBAGO	1-800-7267-864	www.samsung.com/latin
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	SWEDEN	08 585 367 87	www.samsung.com/se
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	CHINA	800-810-5858, 010- 6475 1880	www.samsung.com.cn
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